Index to Volume 65

Author index*

A

ABE, SIRO. (*See* Nakamura, Nakamura, Tazawa, Abe, Aikawa, and Tokita), 114

ADAMS, J. F., AND KENNEDY, ELIZABETH H. Hydroxocobalamin: excretion and retention after parenteral doses in anemic and nonanemic subjects, with reference to the treatment of vitamin B_{12} deficiency states, 450

ADAMSON, LUCILE. (*See* Anast, Kennedy, Volk, and Adamson), 903

AIKAWA, TATSUYA. (*See* Nakamura, Nakamura, Tazawa, Abe, Aikawa, and Tokita), 114

AIKEN, DAVID W. (*See* Threefoot, Kossover, and Aiken), 688

ALKJAERSIG, NORMA, FLETCHER, ANTHONY P., AND SHERRY, SOL. The assay of urokinase preparations for contamination with thromboplastic moieties, 732

—. (*See* Fletcher, Alkjaersig, Sherry, Genton, Hirsh, and Bachmann), 713

ANAST, CONSTANTINE, KENNEDY, ROBIN, VOLK, GEORGE, AND ADAMSON, LUCILE. In vitro studies of sulfate transport by the small intestine of the rat, rabbit, and hamster, 903

ANDERSON, NAOMI M., AND SEKELJ, PAUL. Studies on the light transmission of nonhemolyzed whole blood. Determination of oxygen saturation, 153

AUERBACH, SIDNEY. Zinc content of plasma, blood, and erythrocytes in normal subjects and in patients with Hodgkin's disease and various hematologic disorders, 628

AWAD, ELIAS S. (*See* Cameron, Azzam, Kotite, and Awad), 883

AZEN, E. A., ORR, S., AND SMITHIES, O. Starch-gel electrophoresis of erythrocyte stroma, 440

AZZAM, SAMIR A. (*See* Cameron, Azzam, Kotite, and Awad), 883

B

BACHMANN, FEDOR. (*See* Fletcher, Alkjaersig, Sherry, Genton, Hirsh, and Bachmann), 713

BANNERMAN, ROBIN M. Quantitative aspects of hemoglobin-iron absorption, 944

BARBORIAK, JOSEPH J., SOSMAN, ABE J., AND REED, CHARLES E. Serological studies in pigeon breeder's disease, 600

BARRY, KEVIN G. (*See* Knochel and Barry), 361

BASSETT, DAVID R. (*See* Rosenblatt, Stokes, and Bassett), 202

BAYRAKCI, CEMIL. (*See* Bowman, Brewer, Frischer, Carter, Eisenstein, and Bayrakci), 222

BEEKEN, WARREN L., with the technical assistance of IMREDY, KATALIN. In vitro metabolism of human serum albumin by subcellular fractions of hepatic tissue from man, 649

BEIZER, LAWRENCE H. (*See* Brody, Beizer, and Mobarak), 571

BENNETT, JOHN M. (*See* Rutenburg, Rosales, and Bennett), 698

BIEGELEISEN, JOSEPH Z., JR., MITCHELL, MALCOLM S., MARCUS, BETSY B., RHODEN, DWANE L., AND BLUMBERG, RICHARD W. Immunofluorescence techniques for demonstrating bacterial pathogens associated with cerebrospinal meningitis. I. Clinical evaluation of conjugates on smears prepared directly from cerebrospinal fluid sediments, 976

—. (*See* Mitchell, Marcus, and Biegeleisen), 990

BIRD, ROBERT M. (*See* Hampton, Bird, and Hammarsten), 469

BLATT, ARNOLD H. (*See* Boerth, Blatt, and Spratt), 475

BLONDHEIM, S. H., AND KAUFMANN, NATHAN A. The effect of light on the direct diazo reaction of unconjugated bilirubin, 659

*January, pp. 1-178; February, pp. 179-360; March, pp. 361-538; April, pp. 539-712; May, pp. 713-890; June, pp. 891-1066.

BLOODWORTH, J. M. B., JR., AND POWERS, KENNETH L. The use of film in electron microscopy, 526

BLOOM, PHILLIP M., AND NELP, WIL B. A method for beta counting of large samples of plasma by liquid scintillation, 1030

BLUMBERG, RICHARD W. (*See* Biegeleisen, Mitchell, Marcus, Rhoden, and Blumberg), 976

BOERTH, ROBERT C., BLATT, ARNOLD H., AND SPRATT, JAMES L. Limitations in the determination of in vitro bilirubin glucuronide formation, 475

BONDURANT, STUART. (*See* Giammona and Bondurant), 329

BOWMAN, JAMES E., BREWER, GEORGE J., FRISCHER, HENRI, CARTER, JOHN L., EISENSTEIN, RICHARD B., AND BAYRAKCI, CEMIL. A re-evaluation of the relationship between glucose-6-phosphate dehydrogenase deficiency and the behavioral manifestations of schizophrenia, 222

BRAGASSA, CHARLES. (*See* Pavlovic-Kentera, Hall, Bragassa, and Lange), 577

BRECKENRIDGE, R. T. (*See* Kellermeyer and Breckenridge), 307

BREGANT, ROBERT. (*See* Burns, Bregant, Van Peenan, and Hood), 927

BREWER, GEORGE J. (*See* Bowman, Brewer, Frischer, Carter, Eisenstein, and Bayrakci), 222

BRICKER, NEAL S. (*See* Damadian, Shwayri, and Bricker), 26

—. (*See* Daughaday and Bricker), 1

BRINSON, ANN G. (*See* Kirkman, Doxiadis, Valaes, Tassopoulos, and Brinson), 212

BRODY, JEROME I., BEIZER, LAWRENCE H., AND MOBARAK, MOHAMED A. ABH antigens in human lymphocytes, 571

BROITMAN, SELWYN A. (*See* Wolochow, Broitman, Williams, and Zamcheck), 334

BRUSILOW, SAUL W. An anaerobic sweat collection technique, 513

BUCHANAN, W. WATSON. (*See* Harden, Mason, and Buchanan), 500

BURCH, G. E. (*See* DePasquale, Hyman, and Burch), 122

BURKE, WILLIAM. (*See* Haurani, Burke, and Martinez), 560

BURNS, THOMAS W., BREGANT, ROBERT, VAN PEENAN, HUBERT J., AND HOOD, TONY E. Evaluation of the oral glucose tolerance test by a continuous sampling technique, 927

C

CABASSO, V. J., AND STEBBINS, M. R. Study of spread of rubella virus from inoculated to uninoculated contact Cercopithecus monkeys, 612

CALLAHAN, HUGH J. (*See* Springer and Callahan), 617

CAMERON, BRUCE F., AZZAM, SAMIR A., KOTITE, LEILA, AND AWAD, ELIAS S. Determination of myoglobin and hemoglobin, 883

CARTER, JOHN L. (*See* Bowman, Brewer, Frischer, Carter, Eisenstein, and Bayrakci), 222

CASTOR, C. WILLIAM. The effects of chronic glucocorticoid excess on human connective tissue cells in vitro, 490

CAVALIERI, R. R., AND SEARLE, G. L. The dialysis of I^{131} triiodothyronine from plasma: an in vitro test of thyroid function, 171

CAWLEY, LEO P., EBERHARDT, LUCILE, AND SCHNEIDER, DAVID. Simplified gel electrophoresis. II. Application of immunoelectrophoresis, 342

CENTENO, EDUARDO, SHULMAN, SIDNEY, GONDER, MAURICE J., AND SOANES, WARD A. A simple micromethod for immunodiffusion, 706

CHRISTAKOPOULOS, P. (*See* Malamos, Georgatsos, Hadjilouca, and Christakopoulos), 783

CHUTKOW, JERRY G. Studies on the metabolism of magnesium in the magnesium-deficient rat, 912

CLAYTON, JOAN E. (*See* Hockaday, Frederick, Clayton, and Smith), 677

CLAYTON, LLOYD E. (*See* Knochel and Barry), 361

CLUBB, JOHN S., (*See* Posen, Clubb, Neale, and Hotchkis), 530

COHEN, PHIN, AND GARDNER, FRANK H. Effect of massive triamcinolone administration in blunting the erythropoietic response to phenylhydrazine hemolysis, 88

COPE, CAROL. (*See* Pavlovic-Kentera, Hall, Bragassa, and Lange), 577

COTTON, ROBERT J. (*See* Taylor, Wetmore, Cotton, and Winn), 518

CREVASSE, LAMAR, HEWSON, W. H., Hazouri, G. G., and Shipp, J. C. Glucose metabolism of red blood cells: a study of triiodothyronine on red cell metabolism, 539

CRONKITE, EUGENE P. (*See* Schiffer, Price, and Cronkite), 316

—. (*See* Thomas, Fliedner, Thomas, and Cronkite), 794

CUMMINGS, NORMAN A., AND FRANKLIN, EDWARD C. Atypical γ_{1A}-globulin with the electrophoretic properties of an α_2-globulin occurring in multiple myeloma, 8

CUTLER, R. E., AND GLATTE, H. Simultaneous measurement of glomerular filtration rate and effective renal plasma flow with ^{57}Co-cyanocobalamin and ^{125}I-Hippuran, 1041

D

DAMADIAN, RAYMOND V., SHWAYRI, EDMOND, AND BRICKER, NEAL S. On the existence of non-urine forming nephrons in the diseased kidney of the dog, 26

DANOWSKI, T. S. (*See* Sabeh, Fisher, and Danowski), 523

DAUGHADAY, WILLIAM H., AND BRICKER, NEAL S. Letter from the Editors, 1

DAYTON, SEYMOUR, HASHIMOTO, SAM, ROSENBLUM, DAVID, AND PEARCE, MORTON LEE. Vitamin E status of humans during prolonged feeding of unsaturated fats, 739

DEPASQUALE, N. P., HYMAN, A. L., AND BURCH, G. E. Response of the pulmonary vein to rapid blood transfusion in intact dogs, 122

DIEDERICH, DENNIS A. (*See* Reissmann, Diederich, Ito, and Schmaus), 967

DOXIADIS, SPYROS A. (*See* Kirkman, Doxiadis, Valaes, Tassopoulos, and Brinson), 212

E

EBERHARDT, LUCILE. (*See* Cawley, Eberhardt, and Schneider), 342

EBERT, RICHARD V. Presidential address, 5

EHRLICH, EDWARD N., with the technical assistance of LAVES, MAXINE L. A method for measuring urinary pregnanediol by a double isotope derivative dilution technique utilizing thin layer chromatography, 869

EISENSTEIN, RICHARD B. (*See* Bowman, Brewer, Frischer, Carter, Eisenstein, and Bayrakci), 222

EWE, KLAUS, AND SUMMERSKILL, WILLIAM H. J. Transfer of ammonia in the human jejunum, 839

F

FINKLER, ALEXANDER E. (*See* Hall and Finkler), 459

FISHER, E. R. (*See* Sabeh, Fisher, and Danowski), 523

FLETCHER, ANTHONY P., ALKJAERSIG, NORMA, SHERRY, SOL, GENTON, EDWARD, HIRSH, JACK, AND BACHMANN, FEDOR. The development of urokinase as a thrombolytic agent. Maintenance of a sustained thrombolytic state in man by its intravenous infusion, 713

—. (*See* Alkjaersig, Fletcher, and Sherry), 732

FLIEDNER, T. M. (*See* Thomas, Fliedner, Thomas, and Cronkite), 794

FRANKLIN, EDWARD C. (*See* Cummings and Franklin), 8

FRAZIER, PAUL D., LIETMAN, PAUL S., AND SEEGMILLER, J. EDWIN. Identification of L-cystine crystals in bone marrow by x-ray diffraction, 108

FREDERICK, ELIZABETH W. (*See* Hockaday, Frederick, Clayton, and Smith), 677

FRIED, WALTER. (*See* Gurney and Fried), 775

FRISCHER, HENRI. (*See* Bowman, Brewer, Frischer, Carter, Eisenstein, and Bayrakci), 222

FUDENBERG, H. H. (*See* Vaerman, Johnson, Mandy, and Fudenberg), 18

G

GARCIA, MANUEL. (*See* Plorde, Hovland, Garcia, and Petersdorf), 71

GARDNER, FRANK H. (*See* Cohen and Gardner), 88

GELBOIN, HARRY V. (*See* Gelderman, Gelboin, and Peacock), 132

GELDERMAN, ALBERT H., GELBOIN, HARRY V., AND PEACOCK, ANDREW C. Lactic dehydrogenase isozymes in urine from patients with malignancies of the urinary bladder, 132

GENTON, EDWARD. (*See* Fletcher, Alkjaersig, Sherry, Genton, Hirsh, and Bachmann), 713

GEORGATSOS, JOHN G. (*See* Malamos, Georgatsos, Hadjilouca, and Christakopoulos), 783

GIAMMONA, SAMUEL T., AND BONDURANT, STUART. Comparison of DuNuoy tensiometer and Wilhelmy balance for measuring surface tension of pulmonary surfactant, 329

GILLILAND, BRUCE C. (*See* Van Arsdel and Gilliland), 277

GLATTE, H. (*See* Cutler and Glatte), 1041

GLYNN, M. F., MOVAT, H. Z., MURPHY, E. A., AND MUSTARD, J. F. Study of platelet adhesiveness and aggregation, with latex particles, 179

GOETCHEUS, JOHN S., AND WEBSTER, LESLIE T., JR. γ-Aminobutyrate and hepatic coma, 257

GONDER, MAURICE J. (*See* Centeno, Shulman, Gonder, and Soanes), 706

GOOD, R. A. (*See* Salvin, Peterson, and Good), 1004

GORDON, DONALD L., MOORE, DONALD J., THORSLUND, TODD, AND PAULSEN, C. ALVIN. The determination of size and concentration of human sperm with an electronic particle counter, 506

GRANTHAM, JARED J. (*See* Schloerb and Grantham), 669

GRIFFIN, CHARLES D. The antigenic potential of *Histoplasma capsulatum* isolated from Indiana patients. I. Whole yeast-phase antigens studied by the complement fixation technique, 605

GROSSMAN, ROSE. (*See* Lawrence), 102

GURNEY, CLIFFORD W., AND FRIED, WALTER. Further studies on the erythropoietic effect of androgens, 775

GUZE, LUCIEN B. (*See* Kalmanson and Guze), 484

H

HADJILOUCA, A. (*See* Malamos, Georgatsos, Hadjilouca, and Christakopoulos), 783

HAGEDORN, CLEM W. (*See* Richardson, Hagedorn, Hartley, and Hulet), 40
HALL, CHARLES A., AND FINKLER, ALEXANDER E. The dynamics of transcobalamin II. A vitamin B_{12} binding substance in plasma, 459
HALL, DAVID P. (*See* Pavlovic-Kentera, Hall, Bragassa, and Lange), 577
HAMMARSTEN, DOROTHEA M. (*See* Hampton, Bird, and Hammarsten), 469
HAMPTON, JAMES W., BIRD, ROBERT M., AND HAMMARSTEN, DOROTHEA M. Defective fibrinase activity in two brothers, 469
HARDEN, RONALD McG., MASON, DAVID K., AND BUCHANAN, W. WATSON. Estimation of the plasma inorganic iodine in man: a comparison of methods, 500
HARRISON, DONALD C. (*See* McEwen and Harrison), 546
HARTLEY, BARBARA J. (*See* Richardson, Hagedorn, Hartley, and Hulet), 40
HASHIMOTO, SAM. (*See* Dayton, Hashimoto, Rosenblum, and Pearce), 739
HAURANI, FARID I., BURKE, WILLIAM, AND MARTINEZ, ELBA J. Defective reutilization of iron in the anemia of inflammation, 560
HAYES, JEAN. (*See* Pisciotta), 240
—. (*See* Pisciotta and Santos), 228
HAZOURI, G. G. (*See* Crevasse, Hewson, Hazouri, and Shipp), 539
HERBERT, VICTOR. (*See* Ramsey and Herbert), 143
HERWEG, JOHN C. (*See* Patrizi, Middelkamp, Herweg, and Thornton), 825
HEWSON, W. H. (*See* Crevasse, Hewson, Hazouri, and Shipp), 539
HIRSH, JACK. (*See* Fletcher, Alkjaersig, Sherry, Genton, Hirsh, and Bachmann), 713
HOCKADAY, T. D. R., FREDERICK, ELIZABETH W., CLAYTON, JOAN E., AND SMITH, LLOYD H., JR. Studies on primary hyperoxaluria. II. Urinary oxalate, glycolate, and glyoxylate measurement by isotope dilution methods, 677
HOLMES, JOSEPH H. (*See* Ogden, Sitprija, and Holmes), 379
HOOD, TONY E. (*See* Burns, Bregant, Van Peenan, and Hood), 927
HOTCHKIS, DIANE. (*See* Posen, Clubb, Neale, and Hotchkis), 530
HOVLAND, DAVID. (*See* Plorde, Hovland, Garcia, and Petersdorf), 71
HUE, ALLEN C. (*See* Knights, Whitehouse, Hue, and Santos), 355
HULET, WILLIAM H. (*See* Richardson, Hagedorn, Hartley, and Hulet), 40
HYMAN, A. L. (*See* DePasquale, Hyman, and Burch), 122

I

IMREDY, KATALIN. (*See* Beeken), 649
ITO, KENJIRO. (*See* Reissmann, Diederich, Ito, and Schmaus), 967

J

JOHNSON, L. B. (*See* Vaerman, Johnson, Mandy, and Fudenberg), 18

K

KAHANE, ZDZISLAW, AND VESTERGAARD, PER. An improved method for measurement of free epinephrine and norepinephrine with a phosphate-metaphosphate buffer in the trihydroxyindole procedure, 848
KALMANSON, GEORGE M., AND GUZE, LUCIEN B. Studies of the effects of hydroxychloroquine on immune responses, 484
KARL, IRENE E. (*See* Morrison, Karl, Schwartz, and Shank), 248
KAUFMANN, NATHAN A. (*See* Blondheim and Kaufmann), 659
KEECH, M. K. (*See* Shimizu, McCann, and Keech), 286
KELLER, CHARLOTTE. (*See* Pisciotta), 240
—. (*See* Pisciotta and Santos), 228
KELLERMEYER, R. W., AND BRECKENRIDGE, R. T. The inflammatory process in acute gouty arthritis. I. Activation of Hageman factor by sodium urate crystals, 307
KENNEDY, ELIZABETH H. (*See* Adams and Kennedy), 450
KENNEDY, ROBIN. (*See* Anast, Kennedy, Volk, and Adamson), 903
KESSLER, EDWARD, NELSON, WILLIAM P., III, AND ROSANO, CARMEN L. Urinary electrolytes at low rates of urine flow after expansion of extracellular volume, 804
KIMBER, RICHARD J., LANDER, HARRY, AND ROBSON, HUGH N. The sequestration of NEM-treated red cells in normal and abnormal subjects: a test of splenic uptake function, 951
KIRKMAN, HENRY N., DOXIADIS, SPYROS A., VALAES, TIMOS, TASSOPOULOS, NICKOLAS, AND BRINSON, ANN G. Diverse characteristics of glucose-6-phosphate dehydrogenase from Greek children, 212
—. (*See* Long, Kirkman, and Sutton), 81
KNIGHTS, EDWIN M., JR., WHITEHOUSE, JAMES L., HUE, ALLEN C., AND SANTOS, CARLOS L. Serum guanase determination: a liver-function test, 355
KNOCHEL, JAMES P., AND BARRY, KEVIN G., with the technical assistance of CLAYTON, LLOYD E., AND SMITH, WILLIAM L. THAM dialysis: an experimental method to study diffusion of certain weak acids in vivo. II. Secobarbital, 361
KOSSOVER, MELVYN F. (*See* Threefoot, Kossover, and Aiken), 688

KOTITE, LEILA. (*See* Cameron, Azzam, Kotite, and Awad), 883
KUNIN, CALVIN M. Effect of serum binding on the distribution of penicillins in the rabbit, 406
—. Inhibitors of penicillin binding to serum proteins, 416

L

LANDER, HARRY. (*See* Kimber, Lander, and Robson), 951
LANGE, KURT. (*See* Wasserman, Schwarz, Wachstein, and Lange), 589
LANGE, ROBERT D. (*See* Pavlovic-Kentera, Hall, Bragassa, and Lange), 577
LAVES, MAXINE L. (*See* Ehrlich), 869
LAWRENCE, CHRISTINE, with the technical assistance of GROSSMAN, ROSE. Induction of erythrocyte reduced glutathione instability by dilution of normal blood, 102
LETTERI, JOSEPH M., AND WESSON, LAURENCE G., JR. Glucose titration curves as an estimate of intrarenal distribution of glomerular filtrate in patients with congestive heart failure, 387
LIETMAN, PAUL S. (*See* Frazier, Lietman, and Seegmiller), 108
LINDGREN, F. T. (*See* Strisower, Nichols, Lindgren, and Smith), 748
LONG, WALTER K., KIRKMAN, H. N., AND SUTTON, H. ELDON. Electrophoretically slow variants of glucose-6-phosphate dehydrogenase from red cells of Negroes, 81

M

MCCANN, D. S. (*See* Shimizu, McCann, and Keech), 286
MCEWEN, CHARLES M., JR., AND HARRISON, DONALD C. Abnormalities of serum monoamine oxidase in chronic congestive heart failure, 546
MALAMOS, B., GEORGATSOS, JOHN G., HADJILOUCA, A., AND CHRISTAKOPOULOS, P. The state of iron in the soluble portion of thalassemic erythrocytes. In vitro studies, 783
MANDY, W. (*See* Vaerman, Johnson, Mandy, and Fudenberg), 18
MARCUS, BETSY B. (*See* Biegeleisen, Mitchell, Marcus, Rhoden, and Blumberg), 976
—. (*See* Mitchell, Marcus, and Biegeleisen), 990
MARTINEZ, ELBA J. (*See* Haurani, Burke, and Martinez), 560
MASON, DAVID K. (*See* Harden, Mason, and Buchanan), 500
MASSELL, BENEDICT F. (*See* Michael and Massell), 322
MICHAEL, J. GABRIEL, AND MASSELL, BENEDICT F. Use of unabsorbed antisera in gel diffusion for grouping and typing of hemolytic streptococci, 322
MIDDELKAMP, J. NEAL. (*See* Patrizi, Middelkamp, Herweg, and Thornton), 825
MITCHELL, MALCOLM S., MARCUS, BETSY B., AND BIEGELEISEN, JOSEPH Z., JR. Immunofluorescence techniques for demonstrating bacterial pathogens associated with cerebrospinal meningitis. II. Growth, viability, and immunofluorescent staining of *Hemophilus influenzae, Neisseria meningitidis,* and *Diplococcus pneumoniae* in cerebrospinal fluid, 990
—. (*See* Biegeleisen, Mitchell, Marcus, Rhoden, and Blumberg), 976
MIYAKE, HIROSHI. (*See* Nakayama and Miyake), 638
MOBARAK, MOHAMED A. (*See* Brody, Beizer, and Mobarak), 571
MONTO, ARNOLD S., AND RANTZ, LOWELL A. Classification of so-called paracolon bacilli isolated from urinary tract infection, 64
MOORE, DONALD J. (*See* Gordon, Moore, Thorslund, and Paulsen), 506
MORGAN, EVAN H. (*See* Nosslin and Morgan), 891
MORRISON, GEORGE R., KARL, IRENE E., SCHWARTZ, RUTH, AND SHANK, ROBERT, E. The quantitative histochemistry of the normal human liver lobule, 248
MOVAT, H. Z. (*See* Glynn, Movat, Murphy, and Mustard), 179
MULHOLLAND, JOHN H. (*See* Wolff, Mulholland, and Ward), 268
MURPHY, E. A. (*See* Glynn, Movat, Murphy, and Mustard), 179
MURPHY, JOHN R. Erythrocyte metabolism. VI. Cell shape and the location of cholesterol in the erythrocyte membrane, 756
MUSTARD, J. F. (*See* Glynn, Movat, Murphy, and Mustard), 179

N

NAKAMURA, SHOZO. (*See* Nakamura, Nakamura, Tazawa, Abe, Aikawa, and Tokita), 114
NAKAMURA, TAKASHI, NAKAMURA, SHOZO, TAZAWA, TEIZO, ABE, SIRO, AIKAWA, TATSUYA, AND TOKITA, KATUHIKO. Measurement of blood flow through protopulmonary anastomosis in portal hypertension, 114
NAKAYAMA, FUMIO, AND MIYAKE, HIROSHI. Cholesterol complexing by macromolecular fractions in human gall bladder bile, 638
NEALE, FRANK C. (*See* Posen, Clubb, Neale, and Hotchkis), 530
NELP, WIL B. (*See* Bloom and Nelp), 1030
NELSON, WILLIAM P., III. (*See* Kessler, Nelson, and Rosano), 804
NICHOLS, A. V. (*See* Strisower, Nichols, Lindgren, and Smith), 748
NOSSLIN, BERTIL, AND MORGAN, EVAN H. The effect of phloroglucinol derivatives from male fern on dye excretion by the liver in the rabbit and rat, 891

O

OGDEN, DAVID A., SITPRIJA, VISITH, AND HOLMES, JOSEPH H. Function of the baboon renal heterograft in man and comparison with renal homograft function, 370

ORR, S. (*See* Azen, Orr, and Smithies), 440

P

PATRIZI, GIANFRANCO, MIDDELKAMP, J. NEAL, HERWEG, JOHN C., AND THORNTON, HELEN K. Human cytomegalovirus: electron microscopy of a primary viral isolate, 825

PAULSEN, C. ALVIN. (*See* Gordon, Moore, Thorslund and Paulsen), 506

PAVLOVIC-KENTERA, V., HALL, DAVID P., BRAGASSA, CHARLES, AND LANGE, ROBERT D., with the technical assistance of COPE, CAROL. Unilateral renal hypoxia and production of erythropoietin, 577

PEACOCK, ANDREW C. (*See* Gelderman, Gelboin, and Peacock), 132

PEARCE, MORTON LEE. (*See* Dayton, Hashimoto, Rosenblum, and Pearce), 739

PEREIRA, MARIA-JÚLIA. (*See* Sobrinho-Simões), 665

PETERSDORF, ROBERT G. (*See* Plorde, Hovland, Garcia, and Petersdorf), 71

PETERSON, R. D. A. (*See* Salvin, Peterson, and Good), 1004

PISCIOTTA, ANTHONY V., with the technical assistance of KELLER, CHARLOTTE, AND HAYES, JEAN. Studies on agranulocytosis. VII. Limited proliferative potential of CPZ-sensitive patients, 240

— AND SANTOS, AMADO S., with the technical assistance of KELLER, CHARLOTTE, AND HAYES, JEAN. Studies on agranulocytosis. VI. The effect of clinical treatment with chlorpromazine on nucleic-acid synthesis of granulocyte precursors in normal persons, 228

PLORDE, JAMES J., HOVLAND, DAVID, GARCIA, MANUEL, AND PETERSDORF, ROBERT G. Studies on the pathogenesis of meningitis. V. Action of penicillin in experimental pneumococcal meningitis, 71

POLLOCK, DOROTHY. (*See* Shumway and Pollock), 432

POSEN, SOLOMON, CLUBB, JOHN S., NEALE, FRANK C., AND HOTCHKIS, DIANE. The measurement of plasma volume by enzyme dilution, 530

POTTER, ELIZABETH V. Type 12 streptococci and acute glomerulonephritis. I. Presence and recall of type-specific streptococcal antibodies in patients with healed acute glomerulonephritis, 40

POWERS, KENNETH L. (*See* Bloodworth and Powers), 526

PRICE, DAVID C. (*See* Schiffer, Price, and Cronkite), 316

PROVIDO, HAYDEE S. (*See* Sardesai and Provido), 1023

R

RAINEY, ROBERT L. Use of a remotely operated cardiac catheter for retrograde catheterization of the left ventricle, 167

RAMSEY, CONSTANCE, AND HERBERT, VICTOR. Dialysis assay for intrinsic factor and its antibody: demonstration of species specificity of antibodies to human and hog intrinsic factor, 143

RANTZ, LOWELL A. (*See* Monto and Rantz), 64

REED, CHARLES E. (*See* Barboriak, Sosman, and Reed), 600

REISSMANN, KURT R., DIEDERICH, DENNIS A., ITO, KENJIRO, AND SCHMAUS, JOHN W. Influence of disappearance rate and distribution space on plasma concentration of erythropoietin in normal rats, 967

RHODEN, DWANE L. (*See* Biegeleisen, Mitchell, Marcus, Rhoden, and Blumberg), 976

RICHARDSON, JOHN R., JR., HAGEDORN, CLEM W., HARTLEY, BARBARA J., AND HULET, WILLIAM H. The function of the individual kidneys in hypertension of renal vascular origin, 49

RINDERKNECHT, HEINRICH, AND RINDERKNECHT, JOHN F. A simple method for the quantitative determination of urinary pseudouridine and some new ultraviolet-absorbing metabolites, 1034

RINDERKNECHT, JOHN F. (*See* Rinderknecht and Rinderknecht), 1034

ROBSON, HUGH N. (*See* Kimber, Lander, and Robson), 951

ROSALES, CESAR L. (*See* Rutenburg, Rosales, and Bennett), 698

ROSANO, CARMEN L. (*See* Kessler, Nelson, and Rosano), 804

ROSENBLATT, GERALD, STOKES, JOSEPH, III, AND BASSETT, DAVID R. Whole blood viscosity, hematocrit, and serum lipid levels in normal subjects and patients with coronary heart disease, 202

ROSENBLUM, DAVID. (*See* Dayton, Hashimoto, Rosenblum, and Pearce), 739

RUTENBURG, ALEXANDER M., ROSALES, CESAR L., AND BENNETT, JOHN M. An improved histochemical method for the demonstration of leukocyte alkaline phosphatase activity: clinical application, 698

S

SABEH, G., FISHER, E. R., AND DANOWSKI, T. S. A speed-drill technique for rapid muscle biopsy, 523

SALVIN, S. B., PETERSON, R. D. A., AND GOOD, R. A. The role of the thymus in resistance to infection and endotoxin toxicity, 1004

SANTOS, AMADO S. (*See* Pisciotta and Santos), 228

SANTOS, CARLOS L. (*See* Knights, Whitehouse, Hue, and Santos), 355

SARDESAI, VISHWANATH M., AND PROVIDO, HAYDEE S. A fluorometric method for determining the TAME esterase (tryptic) activity of plasma, 1023

SCHIFFER, LEWIS M., PRICE, DAVID C., AND CRONKITE, EUGENE P. Iron absorption and anemia, 316

SCHLOERB, PAUL R., AND GRANTHAM, JARED J. Intracellular pH measurement with tritiated water, carbon-14 labeled 5,5-dimethyl-2,4-oxazolidinedione, and chloride-36, 669

SCHMAUS, JOHN W. (*See* Reissmann, Diederich, Ito, and Schmaus), 967

SCHMID, RUDI. (*See* Snyder and Schmid), 817

SCHNEIDER, DAVID. (*See* Cawley, Eberhardt, and Schneider), 342

SCHWARTZ, RUTH. (*See* Morrison, Karl, Schwartz, and Shank), 248

SCHWARZ, FELIX. (*See* Wasserman, Schwarz, Wachstein, and Lange), 589

SEARLE, G. L. (*See* Cavalieri and Searle), 171

SEEGMILLER, J. EDWIN. (*See* Frazier, Lietman, and Seegmiller), 108

SEKELJ, PAUL. (*See* Anderson and Sekelj), 153

SHANK, ROBERT E. (*See* Morrison, Karl, Schwartz, and Shank), 248

SHERRY, SOL. (*See* Alkjaersig, Fletcher, and Sherry), 732

—. (*See* Fletcher, Alkjaersig, Sherry, Genton, Hirsh, and Bachmann), 713

SHIMIZU, Y., MCCANN, D. S., AND KEECH, M. K. The effect of ascorbic acid on human dermal fibroblasts in monolayer tissue culture, 286

SHIPP, J. C. (*See* Crevasse, Hewson, Hazouri, and Shipp), 539

SHULMAN, SIDNEY. (*See* Centeno, Shulman, Gonder, and Soanes), 706

SHUMWAY, CLARE N., AND POLLOCK, DOROTHY. The effect of a pneumococcal product upon rabbit erythrocytes in vitro and in vivo, 432

SHWAYRI, EDMOND. (*See* Damadian, Shwayri, and Bricker), 26

SITPRIJA, VISITH. (*See* Ogden, Sitprija, and Holmes), 370

SMITH, LESTER. (*See* Strisower, Nichols, Lindgren, and Smith), 748

SMITH, LLOYD H., JR. (*See* Hockaday, Frederick, Clayton, and Smith), 677

SMITH, WILLIAM L. (*See* Knochel and Barry), 361

SMITHIES, O. (*See* Azen, Orr, and Smithies), 440

SNYDER, ALAN L., AND SCHMID, RUDI. The conversion of hematin to bile pigment in the rat, 817

SOANES, WARD A. (*See* Centeno, Shulman, Gonder, and Soanes), 706

SOBRINHO-SIMÕES, M., with the technical assistance of PEREIRA, MARIA-JÚLIA. A sensitive method for the measurement of serum uric acid using hydroxylamine, 665

SOSMAN, ABE J. (*See* Barboriak, Sosman, and Reed), 600

SPRATT, JAMES L. (*See* Boerth, Blatt, and Spratt), 475

SPRINGER, GEORG F., AND CALLAHAN, HUGH J. Evaluation of an enzymatic-serological test in the diagnosis of infectious mononucleosis, 617

STEBBINS, M. R. (*See* Cabasso and Stebbins), 612

STOKES, JOSEPH, III. (*See* Rosenblatt, Stokes, and Bassett), 202

STRISOWER, E. H., NICHOLS, A. V., LINDGREN, F. T., AND SMITH, LESTER. The effect of Sf 20-10^6 concentration changes induced by ethyl chlorophenoxyisobutyrate on high-density lipoprotein lipid composition, 748

SUMMERSKILL, WILLIAM H. J. (*See* Ewe and Summerskill), 839

SUTTON, H. ELDON. (*See* Long, Kirkman, and Sutton), 81

T

TASSOPOULOS, NICKOLAS. (*See* Kirkman, Doxiadis, Valaes, Tassopoulos, and Brinson), 212

TAYLOR, GERALD C., WETMORE, HAROLD R., COTTON, ROBERT J., AND WINN, JOHN F. Rapid method for production of monkey kidney cell monolayer cultures, 518

TAZAWA, TEIZO. (*See* Nakamura, Nakamura, Tazawa, Abe, Aikawa, and Tokita), 114

TENGERDY, ROBERT P. Gamma globulin determination in human sera by the inhibition of the precipitation of fluorescein-labeled gamma globulin, 859

THOMAS, DOROTHY. (*See* Thomas, Fliedner, Thomas, and Cronkite), 794

THOMAS, E. D., FLIEDNER, T. M., THOMAS, DOROTHY, AND CRONKITE, E. P. The problem of the stem cell: observations in dogs following nitrogen mustard, 794

THORNTON, HELEN K. (*See* Patrizi, Middelkamp, Herweg, and Thornton), 825

THORSLUND, TODD. (*See* Gordon, Moore, Thorslund, and Paulsen), 506

THREEFOOT, SAM A., KOSSOVER, MELVYN F., AND AIKEN, DAVID W. Radioisotopic detection of lymphaticovenous communications in living animals, 688

TOKITA, KATUHIKO. (*See* Nakamura, Nakamura, Tazawa, Abe, Aikawa, and Tokita), 114

V

VAERMAN, J. P., JOHNSON, L. B., MANDY, W., AND FUDENBERG, H. H. Multiple myeloma with two paraprotein peaks: an instructive case, 18

VALAES, TIMOS. (*See* Kirkman, Doxiadis, Valaes, Tassopoulos, and Brinson), 212

VAN ARSDEL, PAUL P., JR., AND GILLILAND, BRUCE C. Anemia secondary to penicillin treatment: studies on two patients with "non-allergic" serum hemagglutinins, 277

VAN PEENAN, HUBERT J. (*See* Burns, Bregant, Van Peenan, and Hood), 927

VESTERGAARD, PER. (*See* Kahane and Vestergaard), 848

VOLK, GEORGE. (*See* Anast, Kennedy, Volk, and Adamson), 903

W

WACHSTEIN, MAX. (*See* Wasserman, Schwarz, Wachstein, and Lange), 589

WARD, STANLEY B. (*See* Wolff, Mulholland, and Ward), 268

WASSERMAN, EDWARD, SCHWARZ, FELIX, WACHSTEIN, MAX, AND LANGE, KURT. Diagnostic value of serum complement determination in hereditary glomerulonephritis, 589

WEBSTER, LESLIE T., JR. (*See* Goetcheus and Webster), 257

WESSON, LAURENCE G., JR. (*See* Letteri and Wesson), 387

WETMORE, HAROLD R. (*See* Taylor, Wetmore, Cotton, and Winn), 518

WHITEHOUSE, JAMES L. (*See* Knights, Whitehouse, Hue, and Santos), 355

WILLIAMS, LOUIS A. (*See* Wolochow, Broitman, Williams, and Zamcheck), 334

WINN, JOHN F. (*See* Taylor, Wetmore, Cotton, and Winn), 518

WOLFF, SHELDON M., MULHOLLAND, JOHN H., AND WARD, STANLEY B. Quantitative aspects of the pyrogenic response of rabbits to endotoxin, 268

WOLOCHOW, DONALD A., BROITMAN, SELWYN A., WILLIAMS, LOUIS A., AND ZAMCHECK, NORMAN. A rapid method for quantitative determination of fecal fat based on the principle of electrical capacitance, 334

Z

ZAMCHECK, NORMAN. (*See* Wolochow, Broitman, Williams, and Zamcheck), 334

Subject index*

A

ABH antigens in human lymphocytes, 571
Acid, ascorbic, effect on human dermal fibroblasts in monolayer tissue culture, 286
Acids, weak, diffusion studied by THAM dialysis, 361
Adhesiveness, platelet, and aggregation, with latex particles, study of, 179
Aggregation, study of platelet adhesiveness and, with latex particles, 179
Agranulocytosis: effect of clinical treatment with chlorpromazine on nucleic-acid synthesis of granulocyte precursors in normal persons, 228
  studies on. Limited proliferative potential of chlorpromazine-sensitive patients, 240
Albumin, human serum, in vitro metabolism of, by subcellular fractions of hepatic tissue from man, 649
Alkaline phosphatase activity, leukocytic, improved histochemical method for demonstration, clinical application, 698
Alpha-2 globulin, atypical γ_{1A}-globulin with electrophoretic properties of, in multiple myeloma, 8
Ammonia, transfer in human jejunum, 839
Anaerobic sweat collection technique, 513
Anastomosis, portopulmonary, in portal hypertension, measurement of blood flow through, 114
Androgens, erythropoietic effect, further studies on, 775
Anemia of inflammation, defective reutilization of iron in, 560
  iron absorption and, 316
  secondary to penicillin treatment; studies on two patients with "non-allergic" serum hemagglutinins, 277
Anemic and nonanemic subjects, hydroxycobalamin excretion and retention after parenteral doses in, with reference to treatment of vitamin B_{12} deficiency states, 450
Antibiodies, demonstration of species specificity of, to human and hog intrinsic factor, 143
  streptococcal, type-specific, in patients with healed acute glomerulonephritis, presence and recall of, 40
Antibody, dialysis assay for intrinsic factor and, 143
Antigenic potential of *Histoplasma capsulatum* isolated from Indiana patients, 605
Antigens, ABH, in human lymphocytes, 571
  whole yeast-phase, studies by the complement fixation technique, 605
Antisera, unabsorbed, use in gel diffusion for grouping and typing of hemolytic streptococci, 322
Arthritis, gouty, acute, inflammatory process in. Activation of Hageman factor by sodium urate crystals, 307
Ascorbic acid, effect on human dermal fibroblasts in monolayer tissue culture, 286

B

Baboon renal heterograft in man, function, and comparison with renal homograft function, 370
Bacilli, paracolon, isolated from urinary tract infection, classification, 64
Bacterial pathogens associated with cerebrospinal meningitis, immunofluorescence techniques for demonstrating, clinical evaluation of conjugates on smears prepared directly from cerebrospinal fluid sediments, 976
  with cerebrospinal meningitis, immunofluorescence techniques for demonstrating, growth, viability, and immunofluorescent staining of *Hemophilus influenzae, Neisseria meningitidis,* and *Diplococcus pneumoniae* in cerebrospinal fluid, 990
Beta counting of large samples of plasma by liquid scintillation, method for, 1030
Bile, gall bladder, human, cholesterol complexing by macromolecular fractions in, 638
  pigment, conversion of hematin to, in rats, 817
Bilirubin, glucuronide formation, in vitro, limitations in determination of, 475
  unconjugated, effect of light on direct diazo reaction of, 659

*January, pp. 1-178; February, pp. 179-360; March, pp. 361-538; April, pp. 539-712; May, pp. 713-890; June, pp. 891-1066.

Binding, penicillin, to serum proteins, inhibitors of, 416
serum, effect on distribution of penicillins in rabbit, 406
Biopsy, muscle, rapid, speed-drill technique for, 523
Bladder, urinary, lactic dehydrogenase isozymes in urine from patients with malignancies of, 132
Blood cells, red, glucose metabolism, effect of triiodothyronine on, 539
flow through portopulmonary anastomosis in portal hypertension, measurement, 114
nonhemolyzed whole, studies on light transmission of. Determination of oxygen saturation, 153
normal, induction of erythrocyte reduced glutathione instability by dilution of, 102
plasma, and erythrocytes, zinc content of, in normal subjects and patients with Hodgkin's disease and various hematologic disorders, 628
transfusion, rapid, in intact dogs, response of pulmonary vein to, 122
viscosity, whole, hematocrit, and serum lipid levels in normal subjects and patients with coronary heart disease, 202
Bone marrow, identification of L-cystine crystals in, by x-ray diffraction, 108
Brothers, two, defective fibrinase activity in, 469

C

Carbon-14 labeled 5,5-dimethyl-2,4-oxazolidinedione, chloride-36, and tritiated water, measurement of intracellular pH with, 669
Cardiac catheter, remotely operated, use for retrograde catheterization of left ventricle, 167
Catheter, cardiac, remotely operated, use for retrograde catheterization of left ventricle, 167
Catheterization, retrograde, of left ventricle, use of remotely operated cardiac catheter for, 167
Cell, monkey kidney, monolayer cultures, rapid method for production of, 518
stem, problem of, observations in dogs given nitrogen mustard, 794
Cells, connective tissue, human, in vitro, effects of chronic glucocorticoid excess on, 490
red blood, glucose metabolism of, effect of triiodothyronine on, 539
of Negroes, electrophoretically slow variants of glucose-6-phosphate dehydrogenase from, 81
NEM-treated, sequestration in normal and abnormal subjects, test of splenic uptake function, 951
Cercopithecus monkeys, contact, spread of rubella virus from inoculated to uninoculated, 612
Cerebrospinal meningitis, immunofluorescence techniques for demonstrating bacterial pathogens associated with, clinical evaluation of conjugates on smears prepared directly from cerebrospinal fluid sediments, 976
for demonstrating bacterial pathogens associated with, growth, viability, and immunofluorescent staining of *Hemophilus influenzae*, *Neisseria meningitidis*, and *Diplococcus pneumoniae* in cerebrospinal fluid, 990
Chloride-36, tritiated water, and carbon-14 labeled 5,5-dimethyl-2,4-oxazolidinedione, measurement of intracellular pH with, 669
Chlorophenoxyisobutyrate, ethyl, effect on high-density lipoprotein lipid composition of Sf 20-10^5 concentration changes induced by, 748
Chlorpromazine, effect of clinical treatment with, on nucleic-acid synthesis of granulocyte precursors on normal persons, 228
Chlorpromazine-sensitive patients, limited marrow proliferative potential of, 240
Cholesterol complexing by macromolecular fractions in human gall bladder bile, 638
location in erythrocyte membrane, cell shape and, 756
^{57}Co-cyanocobalamin and ^{125}I-Hippuran, simultaneous measurement of glomerular filtration rate and effective renal plasma flow with, 1041
Coma, hepatic, and γ-aminobutyrate, 257
Complement fixation technique, whole yeast-phase antigens studied by, 605
serum, determination in hereditary glomerulonephritis, diagnostic value of, 589
Complexing, cholesterol, by macromolecular fractions in human gall bladder bile, 638
Concentration, plasma, of erythropoietin, influence of disappearance rate and distribution space on, in normal rats, 967
Congestive heart failure, chronic, abnormalities of serum monoamine oxidase in, 546
glucose titration curves as estimate of intrarenal distribution of glomerular filtrate in patients with, 387
Connective tissue cells in vitro, effects of chronic glucocorticoid excess on, 490
Contact Cercopithecus monkeys, spread of rubella virus from inoculated to uninoculated, 612
Contamination with thromboplastic moieties, assay of urokinase preparations for, 732

Coronary heart disease, whole blood viscosity, hematocrit, and serum lipid levels in normal subjects and patients with, 202
Counter, electronic particle, determination of size and concentration of human sperm with, 506
Cultures, monkey kidney cell monolayer, rapid method for production of, 518
Cytomegalovirus, human, electron microscopy of primary viral isolate, 825

D

Dehydrogenase, glucose-6-phosphate, deficiency, and behavioral manifestations of schizophrenia, re-evaluation of relationship between, 222
from Greek children, diverse characteristics of, 212
from red cells of Negroes, electrophoretically slow variants of, 81
isozymes, lactic, in urine from patients with malignancies of urinary bladder, 132
Dermal fibroblasts, human, in monolayer tissue culture, effect of ascorbic acid on, 286
Dialysis assay for intrinsic factor and its antibody: demonstration of species specificity of antibodies to human and hog intrinsic factor, 143
of I^{131} triiodothyronine from plasma: in vitro test of thyroid function, 171
THAM, experimental method to study diffusion of certain weak acids in vivo—secobarbital, 361
Diazo, direct, reaction of unconjugated bilirubin, effect of light on, 659
Diffusion of weak acids in vivo, study by THAM dialysis, 361
Diplococcus pneumoniae, Hemophilus influenzae, and *Neisseria meningitidis* in cerebrospinal fluid, growth, viability, and immunofluorescent staining of, 990
Disappearance rate and distribution space, influence on plasma concentration of erythropoietin in normal rats, 967
Distribution space and disappearance rate, influence on plasma concentration of erythropoietin in normal rats, 967
DMO (5,5-dimethyl-2,4-oxazolidinedione), carbon-14 labeled, chloride-36, and tritiated water, measurement of intracellular pH with, 669
DuNuoy tensiometer and Wilhelmy balance, comparison for measuring surface tension of pulmonary surfactant, 329
Dye excretion by liver in rabbits and rats, effect of phloroglucinol derivatives from male fern on, 891
Dynamics of transcobalamin II, vitamin B_{12} binding substance in plasma, 459

E

Editors, letter from, 1
Electrical capacitance, rapid method for quantitative determination of fecal fat based on principle of, 334
Electrolytes, urinary, at low rates of urine flow after expansion of extracellular volume, 804
Electron microscopy, use of film in, 526
Electronic particle counter, determination of size and concentration of human sperm with, 506
Electrophoresis, simplified gel. Application of immunoelectrophoresis, 342
starch-gel, of erythrocyte stroma, 440
Electrophoretic properties of α_2-globulin occurring in multiple myeloma, atypical γ_{1A}-globulin with, 8
Electrophoretically slow variants of glucose-6-phosphate dehydrogenase from red cells of Negroes, 81
Endotoxin, pyrogenic response of rabbits to, quantitative aspects, 268
toxicity and infection, role of thymus in resistance to, 1004
Enzymatic-serological test, evaluation in diagnosis of infectious mononucleosis, 617
Enzyme dilution, measurement of plasma volume by, 530
Epinephrine, free, and norepinephrine, improved method for measurement with phosphate-metaphosphate buffer in trihydroxyindole procedure, 848
Erythrocyte membrane, cell shape and cholesterol location in, 756
metabolism: erythrocyte membrane, cell shape and cholesterol location in, 756
reduced glutathione instability, induction by dilution of normal blood, 102
stroma, starch-gel electrophoresis of, 440
Erythrocytes, glucose metabolism of, effect of triiodothyronine on, 539
NEM-treated, sequestration in normal and abnormal subjects, test of splenic uptake function, 951
rabbit, in vitro and in vivo, effect of pneumococcal product upon, 432
thalassemic, state of iron in soluble portion of, 783
Erythropoietic effect of androgens, further studies on, 775
response to phenylhydrazine hemolysis, effect of massive triamcinolone administration in blunting, 88
Erythropoietin, influence of disappearance rate and distribution space on plasma concentration of, in normal rats, 967
production of, and unilateral renal hypoxia, 577
Ethyl chlorophenoxyisobutyrate, effect of 8f $20\text{-}10^5$ concentration changes induced by, on high-density lipoprotein lipid composition, 748

Extracellular volume, urinary electrolytes at low rates of urine flow after expansion of, 804

F

Fat, fecal, rapid method for quantitative determination of, based on principle of electrical capacitance, 334
Fats, unsaturated, vitamin E status of humans during prolonged feeding of, 739
Fecal fat, rapid method for quantitative determination, based on principle of electrical capacitance, 334
Fern, male, effect of phloroglucinol derivatives from on dye excretion by liver in rabbits and rats, 891
Fibrinase activity, defective, in two brothers, 469
Fibroblasts, dermal, in monolayer tissue culture, effect of ascorbic acid on, 286
Film, use in electron microscopy, 526
Filtrate, glomerular, in patients with congestive heart failure, glucose titration curves as estimate of intrarenal distribution, 387
Filtration rate, glomerular, and effective renal plasma flow, simultaneous measurement with ^{57}Co-cyanocobalamin and ^{125}I-Hippuran, 1041
Fluorescein-labeled gamma globulin, gamma globulin determination in human sera by inhibiting precipitation of, 859
Fluorometric method for determining TAME esterase (tryptic) activity of plasma, 1023
Fractions, macromolecular, cholesterol complexing by, in human gall bladder bile, 638
  subcellular, of hepatic tissue from man, in vitro metabolism of human serum albumin by, 649

G

Gall bladder bile, human, cholesterol complexing by macromolecular fractions in, 638
Gamma globulin determination in human sera by inhibiting precipitation of fluorescein-labeled gamma globulin, 859
  fluorescein-labeled, gamma globulin determination in human sera by inhibiting precipitation of, 859
Gamma-aminobutyrate and hepatic coma, 257
Gamma$_{1A}$-globulin, atypical, with electrophoretic properties of α_2-globulin occurring in multiple myeloma, 8
Gel diffusion, use of unabsorbed antisera in, for grouping and typing of hemolytic streptococci, 322
  electrophoresis, simplified. Application of immunoelectrophoresis, 342
Glomerular filtrate in patients with congestive heart failure, glucose titration curves as estimate of intrarenal distribution of, 387
  filtration rate and effective renal plasma flow, simultaneous measurement with ^{57}Co-cyanocobalamin and ^{125}I-Hippuran, 1041
Glomerulonephritis, acute, Type 12 streptococci and, 40
  healed acute, presence and recall of type-specific streptococcal antibodies in patients with, 40
  hereditary, diagnostic value of serum complement determination in, 589
Glucocorticoid excess, chronic, effects on human connective tissue cells in vitro, 490
Glucose metabolism of red blood cells, effects of triiodothyronine on, 539
  titration curves as estimate of intrarenal distribution of glomerular filtrate in patients with congestive heart failure, 387
  tolerance test, oral, evaluation by continuous sampling technique, 927
Glucose-6-phosphate dehydrogenase deficiency and behavioral manifestations of schizophrenia, re-evaluation of relationship between, 222
  from Greek children, diverse characteristics of, 212
  from red cells of Negroes, electrophoretically slow variants of, 81
Gluthathione instability, erythrocyte reduced, induction by dilution of normal blood, 102
Glycolate, oxalate, glyoxylate, urinary, in primary hyperoxaluria, measurement by isotope dilution methods, 677
Glyoxylate, oxalate, glycolate, urinary, in primary hyperoxaluria, measurement by isotope dilution methods, 677
Gouty arthritis, acute, inflammatory process in. Activation of Hageman factor by sodium urate crystals, 307
Granulocyte precursors in normal persons, effect of clinical treatment with chlorpromazine on nucleic-acid synthesis of, 228
Greek children, diverse characteristics of glucose-6-phosphate dehydrogenase from, 212
Guanase, serum, determination: liver-function test, 355

H

Hageman factor, activation by sodium urate crystals. Inflammatory process in acute gouty arthritis, 307
Heart disease, coronary, whole blood viscosity, hematocrit, and serum lipid levels in normal subjects and patients with, 202
  failure, chronic congestive, abnormalities of serum monoamine oxidase in, 546

Heart failure—Cont'd
congestive, glucose titration curves as estimate of intrarenal distribution of glomerular filtrate in patients with, 387
Hemagglutinins, "non-allergic" serum, studies on two patients with, 277
Hematin, conversion to bile pigment in rats, 817
Hematocrit, whole blood viscosity, and serum lipid levels in normal subjects and patients with coronary heart disease, 202
Hematologic disorders, zinc content of blood, plasma, and erythrocytes in, 628
Hemoglobin and myoglobin, determination, 883
Hemoglobin-iron absorption, quantitative aspects of, 944
Hemolysis, phenylhydrazine, effect of massive triamcinolone administration in blunting erythropoietic response to, 88
Hemolytic streptococci, use of unabsorbed antisera in gel diffusion for grouping and typing, 322
Hemophilus influenzae, Neisseria meningitidis, and *Diplococcus pneumoniae* in cerebrospinal fluid, growth, viability, and immunofluorescent staining of, 990
Hepatic coma and γ-aminobutyrate, 257
tissue from man, in vitro metabolism of human serum albumin by subcellular fractions of, 649
Heterograft, baboon renal, in man, function, and comparison with renal homograft function, 370
Hippuran (I^{125}) and ^{57}Co-cyanocobalamin, simultaneous measurement of glomerular filtration rate and effective renal plasma flow with, 1041
Histochemical method, improved, for demonstration of leukocytic alkaline phosphatase activity, clinical application, 698
Histochemistry, quantitative, of normal human liver lobule, 248
Histoplasma capsulatum isolated from Indiana patients, antigenic potential of, 605
Hodgkin's disease, zinc content of blood, plasma, and erythrocytes in, 628
Homograft function, renal, comparison of function of baboon renal heterograft in man with, 370
Hydroxocobalamin, excretion and retention after parenteral doses in anemic and nonanemic subjects, with reference to treatment of vitamin B_{12} deficiency states, 450
Hydroxychloroquine, effects on immune responses, 484
Hydroxylamine method for measurement of serum uric acid, 665
Hyperoxaluria, primary, urinary oxalate, glycolate, glyoxylate measurement by isotope dilution methods in, 677
Hypertension of renal vascular origin, function of individual kidneys in, 49
Hypoxia, renal, unilateral, and production of erythropoietin, 577

I

Immune responses, effects of hydroxychloroquine on, 484
Immunodiffusion, simple micromethod for, 706
Immunoelectrophoresis, application of. Simplified gel electrophoresis, 342
Immunofluorescence techniques for demonstrating bacterial pathogens associated with cerebrospinal meningitis, clinical evaluation of conjugates on smears prepared directly from cerebrospinal fluid sediments, 976
pathogens associated with cerebrospinal meningitis, growth, viability, and immunofluorescent staining of *Hemophilus influenzae, Neisseria meningitidis,* and *Diplococcus pneumoniae* in cerebrospinal fluid, 990
Infection and endotoxin toxicity, role of thymus in resistance to, 1004
urinary tract, classification of so-called paracolon bacilli isolated from, 64
Infectious mononucleosis, evaluation of enzymatic-serological test in diagnosis, 617
Inflammation, anemia of, defective reutilization of iron in, 560
Inflammatory process in acute gouty arthritis. Activation of Hageman factor by sodium urate crystals, 307
Inhibitors of penicillin binding to serum proteins, 416
Inorganic iodine, plasma, in man, estimation, 500
Intestine, small, of rats, rabbits, and hamsters, sulfate transport by, in vitro studies, 903
Intracellular pH measurement with tritiated water, carbon-14 labeled 5,5-dimethyl-2,4-oxazolidinedione, and chloride-36, 669
Intrarenal distribution of glomerular filtrate in patients with congestive heart failure, glucose titration curves as estimate of, 387
Intrinsic factor, dialysis assay for, and its antibody; demonstration of species specificity antibodies to human and hog intrinsic factor, 143
human and hog, demonstration of species specificity of antibodies to, 143
Iodine, plasma inorganic, in man, estimation, 500

Iodine-125 Hippuran and ^{57}Co-cyanocobalamin, simultaneous measurement of glomerular filtration rate and effective renal plasma flow with, 1041
Iodine-131 triiodothyronine, dialysis from plasma: in vitro test of thyroid function, 171
Iron absorption and anemia, 316
defective reutilization in anemia of inflammation, 560
state of, in soluble portion of thalassemic erythrocytes, 783
Isotope, derivative dilution technique utilizing thin layer chromatography, measuring urinary pregnanediol by, 869
dilution methods, measurement of urinary oxalate, glycolate, glyoxylate in primary hyperoxaluria by, 677
Isozymes, lactic dehydrogenase, in urine from patients with malignancies of urinary bladder, 132

J

Jejunum, human, transfer of ammonia in, 839

K

Kidney cell, monkey, monolayer cultures, rapid method for production of, 518
diseased, of dog, existence of non–urine forming nephrons in, 26
Kidneys, individual, function in hypertension of renal vascular origin, 49

L

Lactic dehydrogenase isozymes in urine from patients with malignancies of urinary bladder, 132
Latex particles, study of platelet adhesiveness and aggregation with, 179
L-cystine crystals in bone marrow, identification by x-ray diffraction, 108
Letter from Editors, 1
Leukocyte alkaline phosphatase activity, improved histochemical method for demonstration, clinical application, 698
Light, effect on direct diazo reaction of unconjugated bilirubin, 659
transmission of nonhemolyzed whole blood, studies on. Determination of oxygen saturation, 153
Lipid composition, high-density lipoprotein, effect of Sf 20-10^5 concentration changes induced by ethyl chlorophenoxyisobutyrate on, 748
levels, serum, whole blood viscosity, and hematocrit in normal subjects and patients with coronary heart disease, 202
Lipoprotein, high-density, lipid composition, effect of Sf 20-10^5 concentration changes induced by ethyl chlorophenoxyisobutyrate on, 748
Liquid scintillation, method for beta counting of large samples of plasma by, 1030
Liver lobule, normal, quantitative histochemistry of, 248
in rabbits and rats, effect of phloroglucinol derivatives from male fern on dye excretion by, 891
Liver-function test, serum guanase determination, 355
Lobule, liver, normal, quantitative histochemistry of, 248
Lymphaticovenous communications in living animals, radioisotopic detection of, 688
Lymphocytes, human, ABH antigens in, 571

M

Macromolecular fractions, cholesterol complexing by in human gall bladder bile, 638
Magnesium in magnesium-deficient rat, metabolism, 912
Male fern, effect of phloroglucinol derivatives from on dye excretion by liver in rabbits and rats, 891
Malignancies of urinary bladder, lactic dehydrogenase isozymes in urine from patients with, 132
Marrow, bone, identification of L-cystine crystals in, by x-ray diffraction, 108
Membrane, erythrocyte, cell shape and cholesterol location in, 756
Meningitis, cerebrospinal, immunofluorescence techniques for demonstrating bacterial pathogens associated with, clinical evaluation of conjugates on smears prepared directly from cerebrospinal fluid sediments, 976
for demonstrating bacterial pathogens associated with, growth, viability, and immunofluorescent staining of *Hemophilus influenzae*, *Neisseria meningitidis*, and *Diplococcus pneumoniae* in cerebrospinal fluid, 990
experimental pneumococcal, action of penicillin in, 71
studies on pathogenesis of. Action of penicillin in experimental pneumococcal meningitis, 71
Metabolism, erythrocyte: cell shape and cholesterol location in erythrocyte membrane, 756
glucose, of red blood cells, effects of triiodothyronine on, 539
of magnesium in magnesium-deficient rat, 912
in vitro, of human serum albumin by subcellular fractions of hepatic tissue from man, 649
Metabolites, ultraviolet-absorbing, and simple method for quantitative determination of urinary pseudouridine, 1034
Micromethod, simple, for immunodiffusion, 706

Microscopy, electron, use of film in, 526
Moieties, thromboplastic, assay of urokinase preparations for contamination with, 732
Monoamine oxidase, serum, abnormalities, in chronic congestive heart failure, 546
Monolayer cultures, monkey kidney cell, rapid method for production, 518
tissue culture, effect of ascorbic acid on human dermal fibroblasts in, 286
Mononucleosis, infectious, evaluation of enzymatic-serological test in diagnosis, 617
Muscle biopsy, rapid, speed-drill technique for, 523
Myeloma, multiple, atypical γ_{1A}-globulin with electrophoretic properties of α_2-globulin occurring in, 8
with two paraprotein peaks, 18
Myoglobin and hemoglobin, determination of, 883

N

Negroes, electrophoretically slow variants of glucose-6-phosphate dehydrogenase from red cells of, 81
Neisseria meningitidis, Hemophilus influenzae, and *Diplococcus pneumoniae* in cerebrospinal fluid, growth, viability, and immunofluorescent staining of, 990
Nephrons, non–urine forming, in diseased kidney of dog, existence of, 26
N-ethylmaleimide–treated red cells in normal and abnormal subjects, sequestration, test of splenic uptake function, 951
Nitrogen mustard, observations on stem cell in dogs given, 794
"Non-allergic" serum hemagglutinins, studies on two patients with, 277
Nonhemolyzed whole blood, studies on light transmission of. Determination of oxygen saturation, 153
Non–urine forming nephrons in diseased kidney of dog, existence, 26
Norepinephrine and epinephrine, free, improved method for measurement with phosphate-metaphosphate buffer in trihydroxyindole procedure, 848
Nucleic-acid synthesis of granulocyte precursors in normal persons, effect of clinical treatment with chlorpromazine on, 228

O

Oral glucose tolerance test, evaluation by continuous sampling technique, 927
Oxalate, glycolate, glyoxylate, urinary, in primary hyperoxaluria, measurement by isotope dilution methods, 677
Oxygen saturation, determination. Studies on light transmission of nonhemolyzed whole blood, 153

P

Paracolon bacilli, so-called, isolated from urinary tract infection, classification, 64
Paraprotein peaks, multiple myeloma with two, 18
Pathogens, bacterial, associated with cerebrospinal meningitis, immunofluorescence techniques for demonstrating, clinical evaluation of conjugates on smears prepared directly from cerebrospinal fluid sediments, 976
meningitis, immunofluorescence techniques for demonstrating, growth, viability, and immunofluorescent staining of *Hemophilus influenzae, Neisseria meningitidis,* and *Diplococcus pneumoniae* in cerebrospinal fluid, 990
Penicillin, action in experimental pneumococcal meningitis, 71
binding to serum proteins, inhibitors, 416
treatment, anemia secondary to, 277
Penicillins, effect of serum binding on distribution in rabbit, 406
pH, intracellular, measurement with tritiated water, carbon-14 labeled 5,5-dimethyl-2,4-oxazolidinedione, and chloride-36, 669
Phenylhydrazine hemolysis, effect of massive triamcinolone administration in blunting erythropoietic response to, 88
Phloroglucinol derivatives from male fern, effect on dye excretion by liver in rabbits and rats, 891
Phosphate-metaphosphate buffer in trihydroxyindole procedure, improved measurement of free epinephrine and norepinephrine with, 848
Pigeon breeder's disease, serological studies in, 600
Pigment, bile, conversion of hematin to, in rats, 817
Plasma, blood, and erythrocytes, zinc content of, in normal subjects and patients with Hodgkin's disease and various hematologic disorders, 628
concentration of erythropoietin, influence of disappearance rate and distribution space on, in normal rats, 967
dialysis of I^{131} triiodothyronine from: in vitro test of thyroid function, 171
fluorometric method for determining TAME esterase (tryptic) activity of, 1023
inorganic iodine in man, estimation, 500
method for beta counting of large samples by liquid scintillation, 1030
vitamin B_{12} binding substance in, transcobalamin II, dynamics of, 459
volume, measurement by enzyme dilution, 530
Platelet adhesiveness and aggregation, with latex particles, study, 179

Pneumococcal meningitis, experimental, action of penicillin in, 71
product, effect upon rabbit erythrocytes in vitro and in vivo, 432
Portal hypertension, measurement of blood flow through portopulmonary anastomosis in, 114
Portopulmonary anastomosis in portal hypertension, measurement of blood flow through, 114
Precursors, granulocyte, in normal persons, effect of clinical treatment with chlorpromazine on nucleic-acid synthesis of, 228
Pregnanediol, urinary, measurement by double isotope derivative dilution technique utilizing thin layer chromatography, 869
Presidential address, 5
Proteins, serum, penicillin binding to, inhibitors, 416
Pseudouridine, urinary, simple method for quantitative determination, and new ultraviolet-absorbing metabolites, 1034
P-tosyl arginine methyl ester hydrochloride (TAME) esterase (tryptic) activity of plasma, fluorometric method for determining, 1023
Pulmonary surfactant, comparison of DuNuoy tensiometer and Wilhelmy balance for measuring surface tension of, 329
vein, response to rapid blood transfusion in intact dogs, 122
Pyrogenic response of rabbits to endotoxin, quantitative aspects of, 268

R

Radioisotopic detection of lymphaticovenous communications in living animals, 688
Red blood cells, glucose metabolism of, effect of triiodothyronine on, 539
of Negroes, electrophoretically slow variants of glucose-6-phosphate dehydrogenase from, 81
NEM-treated, sequestration in normal and abnormal subjects, test of splenic uptake function, 951
Renal heterograft, baboon, function in man, and comparison with renal homograft function, 370
homograft function, comparison of function of baboon renal heterograft in man with, 370
hypoxia, unilateral, and production of erythropoietin, 577
plasma flow, effective, and glomerular filtration rate, simultaneous measurement with ^{57}Co-cyanocobalamin and ^{125}I-Hippuran, 1041
vascular origin, hypertension of, function of individual kidneys in, 49
Rubella virus, spread from inoculated to uninoculated contact Cercopithecus monkeys, 612

S

Schizophrenia, re-evaluation of relationship between glucose-6-phosphate dehydrogenase deficiency and behavioral manifestations of, 222
Secobarbital, diffusion studied by THAM dialysis, 361
Sequestration of NEM-treated red cells in normal and abnormal subjects, test of splenic uptake function, 951
Serological, enzymatic test in diagnosis of infectious mononucleosis, evaluation, 617
Serum albumin, human, in vitro metabolism by subcellular fractions of hepatic tissues from man, 649
binding, effect on distribution of pencillins in rabbit, 406
complement determination, diagnostic value in hereditary glomerulonephritis, 589
lipid levels, whole blood viscosity, and hematocrit in normal subjects and patients with coronary heart disease, 202
monoamine oxidase, abnormalities, in chronic congestive heart failure, 546
proteins, penicillin binding to, inhibitors, 416
uric acid, measurement with hydroxylamine, 665
Sf 20-10^5 concentration changes induced by ethyl chlorophenoxyisobutyrate, effect on high-density lipoprotein lipid composition, 748
Speed-drill technique for rapid muscle biopsy, 523
Sperm, human, determination of size and concentration with electronic particle counter, 506
Splenic uptake function, test, sequestration of NEM-treated red cells in normal and abnormal subjects, 951
Starch-gel electrophoresis of erythrocyte stroma, 440
Stem cell, problem of, observations in dogs given nitrogen mustard, 794
Streptococcal antibodies, type-specific, presence and recall in patients with healed acute glomerulonephritis, 40
Streptococci, hemolytic, use of unabsorbed antisera in gel diffusion for grouping and typing, 322
Type 12, and acute glomerulonephritis. Presence and recall of type-specific streptococcal antibodies in patients with healed acute glomerulonephritis, 40
Stroma, erythrocyte, starch-gel electrophoresis of, 440
Sulfate transport by small intestine of rats, rabbits, and hamsters, in vitro studies, 903

Surface tension of pulmonary surfactant, comparison of DuNuoy tensiometer and Wilhelmy balance for measuring, 329
Surfactant, pulmonary, comparison of DuNuoy tensiometer and Wilhelmy balance for measuring surface tension of, 329
Sweat collection technique, anaerobic, 513

T

TAME esterase (tryptic) activity of plasma, fluorometric method for determining, 1023
Tensiometer, DuNuoy, and Wilhelmy balance, comparison for measuring surface tension of pulmonary surfactant, 329
Tension, surface, of pulmonary surfactant, comparison of DuNuoy tensiometer and Wilhelmy balance for measuring, 329
Thalassemic erythrocytes, state of iron in soluble portion of, 783
THAM dialysis, experimental method to study diffusion of certain weak acids in vivo—secobarbital, 361
Thrombolytic agent, development of urokinase as, maintenance of sustained thrombolytic state in man by its intravenous infusion, 713
  state, maintenance by intravenous infusion of urokinase, 713
Thromboplastic moieties, assay of urokinase preparations for contamination with, 732
Thymus, role in resistance to infection and endotoxin toxicity, 1004
Thyroid function, in vitro test, 171
Tissue culture, monolayer, effect of ascorbic acid on human dermal fibroblasts in, 286
Titration curves, glucose, as estimate of intrarenal distribution of glomerular filtrate in patients with congestive heart failure, 387
Tolerance test, glucose, oral, evaluation by continuous sampling technique, 927
Transcobalamin II, vitamin B_{12} binding substance in plasma, dynamics of, 459
Transfusion, blood, rapid, in intact dogs, response of pulmonary vein to, 122
Transport, sulfate, by small intestine of rats, rabbits, and hamsters, in vitro studies, 903
Triamcinolone administration, massive, effect in blunting erythropoietic response to phenylhydrazine hemolysis, 88
Trihydroxyindole procedure, improved measurement of free epinephrine and norepinephrine with phosphate-metaphosphate buffer in, 848
Triiodothyronine, effect on glucose metabolism of red blood cells, 539
  I^{131}, dialysis from plasma: in vitro test of thyroid function, 171
Tritiated water, carbon-14 labeled, 5,5-dimethyl-2,4-oxazolidinedione, and chloride-36, measurement of intracellular pH with, 669
Tryptic (TAME esterase) activity of plasma, fluorometric method for determining, 1023

U

Ultraviolet-absorbing metabolites, new, and simple method for quantitative determination of urinary pseudouridine, 1034
Unsaturated fats, vitamin E status of humans during prolonged feeding of, 739
Urate crystals, sodium, activation of Hageman factor by. Inflammatory process in acute gouty arthritis, 307
Uric acid, serum, measurement with hyroxylamine, 665
Urinary bladder, lactic dehydrogenase isozymes in urine from patients with malignancies of, 132
  electrolytes at low rates of urine flow after expansion of extracellular volume, 804
  oxalate, glycolate, glyoxylate in primary hyperoxaluria, measurement by isotope dilution methods, 677
  pregnanediol, measurement by double isotope derivative dilution technique utilizing thin layer chromatography, 869
  pseudouridine, simple method for quantitative determination, and new ultraviolet-absorbing metabolites, 1034
  tract infection, classification of so-called paracolon bacilli isolated from, 64
Urine flow, urinary electrolytes at low rates of, after expansion of extracellular volume, 804
  from patients with malignancies of urinary bladder, lactic dehydrogenase isozymes in, 132
Urokinase, development as thrombolytic agent, maintenance of sustained thrombolytic state in man by its intravenous infusion, 713
  preparations, assay for contamination with thromboplastic moieties, 732

V

Variants, electrophoretically slow, of glucose-6-phosphate dehydrogenase from red cells of Negroes, 81
Vascular, renal, origin, hypertension of, function of individual kidneys in, 49
Vein, pulmonary, response to rapid blood transfusion in intact dogs, 122
Ventricle, left, use of remotely operated cardiac catheter for retrograde catheterization of, 167

Viral isolate, primary, electron microscopy of, in human cytomegalovirus, 825
Virus, rubella, spread from inoculated to uninoculated contact Cercopithecus monkeys, 612
Viscosity, whole blood, hematocrit, and serum lipid levels in normal subjects and patients with coronary heart disease, 202
Vitamin B_{12} binding substance in plasma, transcobalamin II, dynamics of, 459
deficiency states, treatment, hydroxocobalamin excretion and retention after parenteral doses in anemic and nonanemic subjects, with reference to, 450
E status of humans during prolonged feeding of unsaturated fats, 739

W

Wilhelmy balance and DuNuoy tensiometer, comparison for measuring surface tension of pulmonary surfactant, 329

X

X-ray diffraction, identification of L-cystine crystals in bone marrow by, 108

Y

Yeast-phase antigens, whole, studied by complement fixation technique, 605

Z

Zinc content of plasma, blood, and erythrocytes in normal subjects and patients with Hodgkin's disease and various hematologic disorders, 628

The Journal of
LABORATORY and CLINICAL MEDICINE

WILLIAM H. DAUGHADAY, *Editor*
NEAL S. BRICKER, *Associate Editor*
ANTHONY P. FLETCHER, *Associate Editor*
St. Louis, Mo.

Board of editors

FRED M. DAVENPORT
Ann Arbor, Mich.

HARPER K. HELLEMS
Jersey City, N. J.

ROBERT E. HODGES
Iowa City, Iowa

MELVIN H. KAPLAN
Cleveland, Ohio

CHARLES A. OWEN
Rochester, Minn.

JOSEPH C. ROSS
Indianapolis, Ind.

ROBERT F. SCHILLING
Madison, Wis.

RUDI SCHMID
Chicago, Ill.

LEIF B. SORENSEN
Chicago, Ill.

GENE H. STOLLERMAN
Chicago, Ill.

LESLIE ZIEVE
Minneapolis, Minn.

VOLUME 66

July—December, 1965

THE C. V. MOSBY COMPANY

St. Louis

1965

VOLUME 66

Copyright © 1965 by

THE C. V. MOSBY COMPANY

All rights reserved
Printed in the United States of America

1036

Index to Volume 66

Author index*

A

ABBRECHT, PETER H., AND GREENE, JAMES A., JR. Erythropoiesis after renal homotransplantation, 849 (Abst.)

ABERNATHY, ROBERT S., AND LANDY, JEROME J. Increased resistance to endotoxin in germ-free guinea pigs, 849 (Abst.)

ABRAHAM, RALPH E. (*See* Love, Munford, and Abraham), 423

ADAMS, JACK W. (*See* Merritt, Adams, and Effmann), 1002 (Abst.)

ADDINGTON, WHITNEY W., KETTEL, LOUIS J., CARO, JAIME, AND CUGELL, DAVID W. The cardiac output and renal clearances of edematous patients with chronic lung disease, 850 (Abst.)

ADEL, H. N., DEMING, Q. B., DALY, M. M., RAEFF, V. M., AND BRUN, L. M. The effect of experimental hypertension on cholesterol synthesis in the rat, 571

ALAUPOVIC, PETAR. (*See* Furman, Howard, Brusco, and Alaupovic), 912

ALFORD, DOROTHY A. (*See* Lewis, Alford, Rathjen, and Lange), 987

ALLISON, FRED, JR., AND LANCASTER, MARGIE G. The influence of nucleotides upon the phagocytic and adhesive characteristics of leukocytes from human donors, 850 (Abst.)

ALT, HOWARD L. (*See* Glader, Rambach, and Alt), 873 (Abst.)

ANDERSON, W. R. (*See* Richards and Anderson), 1015 (Abst.)

ANDRESEN, RICHARD H., MONROE, CLARENCE W., HASS, GEORGE M., AND WEBER, DOROTHY A. Tissue reactions of guinea pig musculofascial transplants in rabbits pretreated with guinea pig graft donor's blood prior to grafting, 851 (Abst.)

APRILE, MARIE A., VIJH, K. MARION, AND WARDLAW, ALASTAIR C. Increase in sensitivity of the complement fixation test by use of low ionic strength buffers: studies with heat-aggregated gamma globulin and with poliomyelitis vaccines, 146

ARIMURA, GRACE K. (*See* Yunis and Arimura), 177

ARMSTRONG, MARK L., CONNOR, WILLIAM E., AND WARNER, EMORY D. Incidence of xanthomatosis in the hypercholesterolemic rhesus monkey, 851 (Abst.)

ATENCIO, A. C., BAILEY, H. R., AND REEVE, E. B. Studies on the metabolism and distribution of fibrinogen in young and older rabbits. I. Methods and models, 1

—, BURDICK, D. C., AND REEVE, E. B. An accurate isotope dilution method for measuring plasma fibrinogen, 137

— AND REEVE, E. B. Studies on the metabolism and distribution of fibrinogen in young and older rabbits. II. Results, 20

AUERBACH, SIDNEY, AND LOVITZ, ALFRED, JR. Electronic representation of histologic patterns. I. Normal uterine cervical epithelium and carcinoma in situ, 994

AUSTEN, K. F. (*See* Klemperer, Woodworth, Rosen, and Austen), 886 (Abst.)

B

BAER, ROBERT D. (*See* Winer, Klachko, Baer, Langley, and Burns), 1033 (Abst.)

BAILEY, H. R. (*See* Atencio, Bailey, and Reeve), 1

BAKER, HERMAN. (*See* Cherrick, Baker, Frank, and Leevy), 446

BAKER, RICHARD K. (*See* Orti, Baker, Lanman, and Brasch), 973

BALL, MICHAEL F. (*See* Clive, Ball, Meloni, Werdein, Canary, and Kyle), 841

*July, pp. 1-176; August, pp. 177-356; September, pp. 357-534; October, pp. 535-708; November, pp. 709-892; December, pp. 893-1074.

BALUDA, MARYELLEN C. (*See* Beutler, Mathai, and Baluda), 853 (Abst.)

BARNES, GLOVER W., SHULMAN, SIDNEY, GONDER, MAURICE J., AND SOANES, WARD A. Further studies of the immunological properties of human prostatic fluid, 741

BARNESS, LEWIS A. (*See* Kahn, Williams, Barness, Young, Shafer, Vivacqua, and Beaupre), 75

BARNETT, STEPHEN E. (*See* Gewurz and Barnett), 872 (Abst.)

BARRERAS, ROBERT F. (*See* Donaldson and Barreras), 866 (Abst.)

BARRY, KEVIN G. (*See* Shear, Castellot, and Barry), 232

BEAUPRE, EUGENE M. (*See* Kahn, Williams, Barness, Young, Shafer, Vivacqua, and Beaupre), 75

BECK, PAUL, SCHALCH, DON S., PARKER, MARY L., KIPNIS, DAVID M., AND DAUGHADAY, WILLIAM H. Correlative studies of growth hormone and insulin plasma concentrations with metabolic abnormalities in acromegaly, 366

BELL, NORMAN H., AND BRYAN, PHYLLIS. On the metabolism of C^{14}-vitamin D_3 in the rat, 852 (Abst.)

BENNETT, JOHN V., AND KIRBY, WILLIAM M. M. A rapid, modified ultrafiltration method for determining serum protein binding and its application to new penicillins, 721

BENNETT, P. H., STEINBERG, A. G., MILLER, M., AND BURCH, T. A. Effect of aging on the glucose tolerance test: evidence that the normal standards change only slightly with age, 852 (Abst.)

BERES, JOSEPH. (*See* Kimmelstiel, Osawa, Beres, and Seiling), 884 (Abst.)

BERGREN, WILLIAM R. (*See* Ng, Donnell, and Bergren), 115

BERNS, A. W. (*See* Premachandra, Berns, and Blumenthal), 893

BERNSTEIN, LIONEL M. (*See* Hamby and Bernstein), 874 (Abst.)

BERRY, HELEN K. (*See* Light, Berry, and Sutherland), 892 (Abst.)

BEST, WILLIAM R. Prognostication through discriminant function analysis, with application to chloramphenicol-associated blood dyscrasias, 853 (Abst.)

BEUTLER, ERNEST, MATHAI, CLARAMMA K., AND BALUDA, MARYELLEN C. The Duarte variant of galactose-1-phosphate uridyl transferase: biochemical and electrophoretic studies, 853 (Abst.)

BEUTTELL, JEFFREY M. (*See* Manger, Wakim, Nahas, Dufton, and Beuttell), 1000 (Abst.)

BICKS, RICHARD O., AND ROSENBERG, E. WILLIAM. Primary contact sensitization of the colon of miniature swine, 854 (Abst.)

BIEGELEISEN, JOSEPH Z., JR. (*See* Mitchell and Biegeleisen), 53

BIESSENER, WILLIAM D. (*See* Tuna, Pogue, Biessener, and Johnson), 1028 (Abst.)

BIRGE, STANLEY J. (*See* Peck and Birge), 1008 (Abst.)

BLAISDELL, R. K., AND HRUBEC, Z. Aplastic anemia as a late radiation effect: evidence from atomic bomb survivors, 855 (Abst.)

BLUMENTHAL, H. T. (*See* Premachandra, Berns, and Blumenthal), 893

BOBLITT, DELBERT E. (*See* Korst, Nixon, Boblitt, and Quirk), 788

BOERÉ, H., RUINEN, L., AND SCHOLTEN, J. H. Electron microscopic studies on the fibrillar component of human splenic amyloid, 943

BOLE, GILES G., JR. A comparative study of the effect of hydrocortisone on the sugar nucleotide content of sponge biopsy connective tissue and the liver, 855 (Abst.)

BOLEY, L. E. (*See* Zimmerman, Schwartz, Boley, and West), 961

BOLINGER, ROBERT E. (*See* Lukert, Meek, and Bolinger), 999 (Abst.)

BOLT, ROBERT J. (*See* Watson, Quigley, and Bolt), 1030 (Abst.)

BOND, WILLIAM H. (*See* Rohn, Massad, and Bond), 1016 (Abst.)

BONOMO, LORENZO, TURSI, ALFREDO, AND DAMMACCO, FRANCESCO. Characterization of the antibodies producing the homogeneous and the speckled fluorescence patterns of cell nuclei, 42

BOTTICELLI, JAMES T. (*See* Lange, Botticelli, Tsagaris, Walker, Gani, and Bustamante), 888 (Abst.)

BOWIE, E. J. WALTER, THOMPSON, JOHN H., JR., DIDISHEIM, PAUL, AND OWEN, CHARLES A., JR. Thrombopathy: the commonest bleeding disease, 856 (Abst.)

BOWYER, ALLEN F., CARLETON, RICHARD A., AND GRAETTINGER, JOHN S. Indicator washout as a function of ventricular configuration, 856 (Abst.)

—. (*See* Carleton, Graettinger, and Bowyer), 413

BRASCH, HOWARD. (*See* Orti, Baker, Lanman, and Brasch), 973

BRAUDE, A. I. (*See* Starzecki, Reddin, Zak, Braude, and Spink), 1023 (Abst.)

BRAUDO, J. L. (*See* Lewy, Cruz, Fridman, Braudo, and Metcoff), 891 (Abst.)

BRAUN, HILDEGARDE. (*See* McKeever and Braun), 1001 (Abst.)

BRAUNWALD, JACK. (*See* Cohen, Braunwald, and Gardner), 263

BRAVO, JAIME F., HERMAN, JEROME H., AND SMYTH, CHARLEY J. Connective tissue disorders following renal homotransplantation, a clinical and laboratory analysis of 55 cases, 857 (Abst.)

BRECH, WOLFGANG J., GLENNON, JOSEPH A., KORN, LEONARD, AND GORDON, EDGAR S. Studies of glucose metabolism in lean and obese humans with the use of glucose-1-C_{14}, 858 (Abst.)

BREWER, GEORGE J. Genetic and population studies of human erythrocyte adenosine triphosphate (ATP), 858 (Abst.)

BRICKER, NEAL S. (*See* Shankel, Robson, Rieselbach, and Bricker), 1020 (Abst.)

BROMBERG, PHILIP A., THEODORE, JAMES, ROBIN, EUGENE D., AND JENSEN, WALLACE N. Anion and hydrogen ion distribution in human blood, 464

BROUN, G. O., SR. A statistical study of the occurrence of infectious hepatitis and infectious mononucleosis in the St. Louis University Hospitals, 859 (Abst.)

BROWN, BARRY W. (*See* Robinson, Tsong, Brown, and Schmid), 1015 (Abst.)

BROWN, ELMER B. (*See* Rush, Figallo, and Brown), 1017 (Abst.)

BROWN, ERIC R., AND SCHWARTZ, STEVEN O. Fluorescent microscopy studies on a murine leukemia (863) virus, 859 (Abst.)

BROWN, H. (*See* Davis, Huff, and Brown), 390

BRUN, L. M. (*See* Adel, Deming, Daly, Raeff, and Brun), 571

BRUSCO, OSVALDO, J. (*See* Furman, Howard, Brusco, and Alaupovic), 912

BRYAN, PHYLLIS. (*See* Bell and Bryan), 852 (Abst.)

BURCH, T. A. (*See* Bennett, Steinberg, Miller, and Burch), 852 (Abst.)

BURDICK, D. C. (*See* Atencio, Burdick, and Reeve), 137

BURNINGHAM, RICHARD A., AND YUNIS, ADEL A. Biochemical basis for low glycogen levels in leukemic leukocytes, 860 (Abst.)

BURNS, THOMAS W. (*See* Winer, Klachko, Baer, Langley, and Burns), 1033 (Abst.)

—. (*See* Winer, Martt, Somers, Wolcott, Dale, and Burns), 758

BUSTAMANTE, RODRIGO A. (*See* Lange, Botticelli, Tsagaris, Walker, Gani, and Bustamante), 888 (Abst.)

C

CALKINS, ELLANOR. (*See* Mendel), 627

CAMPION, D. S., AND NORTH, J. D. K. Effect of protein binding of barbiturates on their rate of removal during peritoneal dialysis, 549

CANARY, JOHN J. (*See* Clive, Ball, Meloni, Werdein, Canary, and Kyle), 841

CANFIELD, CRAIG J., HERMAN, YAYE F., HERMAN, ROBERT H., AND CONRAD, MARCEL E. Refractory hemolytic disease associated with glucose-6-phosphate dehydrogenase deficiency and hemosiderosis: report of a case, 96

CAPPS, RICHARD B. (*See* Holmes, Capps, and Deinhardt), 879 (Abst.)

CAREY, JAMES B., JR., AND WILLIAMS, GALE. Lithocholic acid in the serum of patients with liver disease, 860 (Abst.)

CARLETON, RICHARD A., GRAETTINGER, JOHN S., AND BOWYER, ALLEN F. Parasympathetic influence on the atrial myocardium and atrioventricular node of man, 413

—. (*See* Bowyer, Carleton, and Graettinger), 856 (Abst.)

CARLISLE, HAROLD N. (*See* Saslaw, Carlisle, and Perkins), 1017 (Abst.)

CARO, JAIME. (*See* Addington, Kettel, Caro, and Cugell), 850 (Abst.)

CARSON, PAUL E. (*See* Eppes, DeGowin, McNamara, Powell, and Carson), 868 (Abst.)

CASTELLOT, JOHN J. (*See* Shear, Castellot, and Barry), 232

CASTOR, C. WILLIAM. Relative steroid "unresponsiveness" of rheumatoid articular connective tissue cells propagated in vitro, 861 (Abst.)

CAWEIN, M. J. (*See* Lappat and Cawein), 889 (Abst.)

CHAN, T. K., TODD, D., and WONG, C. C. Tissue enzyme levels in erythrocyte glucose-6-phosphate dehydrogenase deficiency, 937

CHAPMAN, SANFORD R., SMITH, LEO M., AND SIMMONS, DANIEL H. Determination of 2-amino-2-hydroxymethyl-1,3-propanediol (Tris; THAM) in urine by titration, 698

CHENG, H. F. (*See* Peterson, Evans, and Cheng), 1009 (Abst.)

CHERRICK, GILBERT R., BAKER, HERMAN, FRANK, OSCAR, AND LEEVY, CARROLL M. Observations on hepatic avidity for folate in Laennec's cirrhosis, 446

CHRISTOFF, NICHOLAS. (*See* Weiss, Smith, Christoff, and Kochwa), 280

CLAMAN, HENRY N. Human thymus cells grown in vitro: evidence for two functional populations, 861 (Abst.)

CLARK, MERVIN L., REINHARDT, HERBERT, MILLER, M. CLINTON, III, AND WILSON, RAY. Polyvalent influenza vaccine: comparison of jet injection with intradermal and subcutaneous syringe methods of administration, 34

CLIVE, DONALD, BALL, MICHAEL F., MELONI, C. ROBERT, WERDEIN, EDWARD J., CANARY, JOHN J., AND KYLE, LAURENCE H. Modifications of the helium dilution method of measuring human body volume, 841

CLUBB, JOHN S., NEALE, FRANCIS C., AND POSEN, SOLOMON. The behavior of infused human placental alkaline phosphatase in human subjects, 493

CODE, C. F. (*See* Phillips, Code, and Summerskill), 1010 (Abst.)

COFFEE, KAREN. (*See* Tobian, Coffee, and McCrea), 1027 (Abst.)
COHEN, EDWIN L. (*See* Conn, Rovner, and Cohen), 863 (Abst.)
COHEN, LOUIS, AND DJORDJEVICH, JULIANA. Evidence of human serum alpha-1-lipoprotein heterogeneity, 862 (Abst.)
COHEN, PHIN, BRAUNWALD, JACK, AND GARDNER, FRANK H. Destruction of canine and rabbit platelets following intravenous administration of carbon particles or endotoxin, 263
COHN, J. E., AND DANZER, L. Pulmonary diffusing capacity and the vascular waterfall, 862 (Abst.)
COLLINS, RAY S. (*See* Prasad, Oberleas, and Halsted), 508
COMAR, D. (*See* Kellershohn, Comar, and Le Poec), 168
COMBES, BURTON. (*See* Schenker and Combes), 1018 (Abst.)
CONN, JEROME W., ROVNER, DAVID R., AND COHEN, EDWIN L. Normokalemic primary aldosteronism. A frequent cause of curable "essential" hypertension, 863 (Abst.)
—. (*See* Floyd, Fajans, Conn, Knopf, Guntsche, and Rull), 870 (Abst.)
CONNOR, WILLIAM E. (*See* Armstrong, Connor, and Warner), 851 (Abst.)
CONRAD, MARCEL E. (*See* Canfield, Herman, Herman, and Conrad), 96
COOPER, MAX D., SCHWARTZ, MELVIN M., AND GOOD, ROBERT A. Experimental agammaglobulinemia and dysgammaglobulinemia in chickens, 863 (Abst.)
CORLISS, ROBERT J., ROWE, GEORGE G., MCKENNA, DAVID H., SIALER, SALVADOR, AND CRUMPTON, CHARLES W. Hemodynamics of cardioversion, 864 (Abst.)
COURCON, JANINE. (*See* Grieble, Courcon, and Grabar), 216
COUZENS, ELIZABETH. (*See* Nestel, Couzens, and Hirsch), 582
CRAM, RICHARD L., JUCHAU, MONT R., AND FOUTS, JAMES R. Stimulation by chlordane of hepatic drug metabolism in the squirrel monkey, 906
CRONKITE, EUGENE P. (*See* Rubini, Keller, and Cronkite), 483
CROUSE, G. (*See* Rosenthal, Crouse, and Spurrier), 1016 (Abst.)
CRUMPTON, CHARLES W. (*See* Corliss, Rowe, McKenna, Sialer, and Crumpton), 864 (Abst.)
CRUZ, H. (*See* Lewy, Cruz, Fridman, Braudo, and Metcoff), 891 (Abst.)
CUGELL, DAVID W. (*See* Addington, Kettel, Caro, and Cugell), 850 (Abst.)
CUPPAGE, FRANCIS E. (*See* Okuda, Kaplan, Cuppage, and Heymann), 204
CUSHING, FREDERICK. (*See* Shapiro, Rosenblatt, Czajkowski, Cushing, Morris, and Wolf), 1021 (Abst.)
CZAJKOWSKI, NORBERT. (*See* Shapiro, Rosenblatt, Czajkowski, Cushing, Morris, and Wolf), 1021 (Abst.)
CZEBOTAR, V. (*See* Dietz, Czebotar, and Rubinstein) 866 (Abst.)

D

DALE, HOMER E. (*See* Winer, Martt, Somers, Wolcott, Dale, and Burns), 758
DALY, M. M. (*See* Adel, Deming, Daly, Raeff, and Brun), 571
DAMMACCO, FRANCESCO. (*See* Bonomo, Tursi, and Dammacco), 42
DANZER, L. (*See* Cohn and Danzer), 862 (Abst.)
DARBY, WILLIAM J. (*See* Prasad, Sandstead, Schulert, Farid, and Darby), 1013 (Abst.)
DAUGHADAY, WILLIAM H. (*See* Beck, Schalch, Parker, Kipnis, and Daughaday), 366
DAVENPORT, FRED M., HENNESSY, ALBERT V., AND MINUSE, ELVA. Serologic epidemiology of human infection with equinelike influenza viruses, 864 (Abst.)
DAVIS, V. E., HUFF, J. A., AND BROWN, H. Free and conjugated serotonin excretion in carcinoid syndrome, 390
DEARING, WILLIAM H. (*See* Kinney, Tauxe, and Dearing), 187
DEGOWIN, RICHARD L. (*See* Eppes, DeGowin, McNamara, Powell, and Carson), 868 (Abst.)
DEGRAZIA, JOSEPH A., IVANOVICH, PETER, FELLOWS, HAROLD, AND RICH, CLAYTON. A double isotope method for measurement of intestinal absorption of calcium in man, 822
DEINHARDT, FRIEDRICH. (*See* Holmes, Capps, and Deinhardt), 879 (Abst.)
DEISS, WILLIAM P., JR. (*See* Johnston and Deiss), 881 (Abst.)
DELANEY, R. (*See* Wilson, Jurevics, Delaney, and Schram), 1032 (Abst.)
DEL GRECO, F., SIMON, N. M., GOODMAN, S., AND ROGUSKA, J. Comparative study of renin assay, differential renal function, aortography, and angiotensin infusion test in hypertension, 865 (Abst.)
DEMING, Q. B.: (*See* Adel, Deming, Daly, Raeff, and Brun), 571
DESPER, PAUL C. (*See* Jones, Desper, Shane, and Flink), 882 (Abst.)
DEYKIN, DANIEL. (*See* Ream, Deykin, Gurewich, and Wessler), 245
DIDISHEIM, PAUL. (*See* Bowie, Thompson, Didisheim, and Owen), 856 (Abst.)
DIETSCHY, J. M., SALOMAN, H. S., AND SIPERSTEIN, M. D. Bile salt mechanisms of transport in the rat small intestine, 865 (Abst.)
DIETZ, A., CZEBOTAR, V., AND RUBINSTEIN, H. Nature of a urinary compound found in hereditary abnormal cholinesterase states, 866 (Abst.)

DI LUZIO, NICHOLAS R. (*See* Salky and Di Luzio), 1017 (Abst.)
—. (*See* Salky, Mills, and Di Luzio), 952
DIMITROV, NIKOLAY. (*See* Weir, Houser, Dimitrov, and Suhrland), 1030 (Abst.)
DJORDJEVICH, JULIANA. (*See* Cohen and Djordjevich), 862 (Abst.)
DOBRILOVICH, LJUBICA. (*See* Jones and Dobrilovich), 883 (Abst.)
DONALDSON, ROBERT M., JR., AND BARRERAS, ROBERT F. Intestinal absorption of trace quantities of chromium, 866 (Abst.)
DONALDSON, VIRGINIA H., RATNOFF, OSCAR D., AND ROSEN, FRED S. Permeability properties of plasma in hereditary angioneurotic edema, 867 (Abst.)
DONNELL, GEORGE N. (*See* Ng, Donnell, and Bergren), 115
DREWRY, WILLIAM. (*See* Theodore, Murdaugh, Drewry, and Robin), 1027 (Abst.)
DRUCKER, WILLIAM R. Can hypothermia protect against metabolic acidosis during hemorrhagic shock? 867 (Abst.)
DRUYAN, ROBERT, AND HAEGER-ARONSEN, BIRGITTA. The effect of a conditioned pyridoxine deficiency on excretion of porphyrin precursors in normal and experimentally porphyric rabbits, 122
DUBIN, ALVIN. (*See* Pamukcu, Steigmann, Szanto, and Dubin), 1006 (Abst.)
DUFTON, SYDNEY. (*See* Manger, Wakim, Nahas, Dufton, and Beuttell), 1000 (Abst.)

E

EARLE, D. P. (*See* Simon, Potter, Siegel, McAninch, Poon-King, Humair, and Earle), 1022 (Abst.)
EFFMANN, ERIC L. (*See* Merritt, Adams, and Effmann), 1002 (Abst.)
EGSTROM, GLEN H., AND WEISMAN, SAMUEL A. The relationship of chest shape and selected aspects of cardiorespiratory function, 868 (Abst.)
EHRLICH, GEORGE E. (*See* Mondzac, Ehrlich, and Seegmiller), 526
EPPES, R. BENNETT, DEGOWIN, RICHARD L., MCNAMARA, JAMES V., POWELL, ROBIN D., AND CARSON, PAUL E. Glucose tolerance in glucose-6-phosphate dehydrogenase deficiency, 868 (Abst.)
EPSTEIN, WALLACE V. (*See* Tan and Epstein), 344
EVANS, T. (*See* Peterson, Evans, and Cheng), 1009 (Abst.)

F

FAIMAN, C., AND MOORHOUSE, J. A. Diurnal variation in the levels of glucose and related substances in healthy and diabetic subjects during starvation, 869 (Abst.)
FAJANS, STEFAN S. (*See* Floyd, Fajans, Conn, Knopf, Guntsche, and Rull), 870 (Abst.)
FALLER, WILLIAM. (*See* Heinzel, Vogt, Kallee, and Faller), 334
FARID, ZOHEIR. (*See* Prasad, Sandstead, Schulert, Farid, and Darby), 1013 (Abst.)
FEHÉR, IMRE, AND GIDÁLI, JULIA. Quantitative changes in the level of the myelopoiesis-stimulating agent in rabbit sera, 272
FEIGENBAUM, HARVEY, AND ZAKY, ABID. Study of electrical alternation with ultrasoundcardiography, 869 (Abst.)
FELLOWS, HAROLD. (*See* DeGrazia, Ivanovich, Fellows, and Rich), 822
FIGALLO, MANUEL A. (*See* Rush, Figallo, and Brown), 1017 (Abst.)
FLETCHER, ANTHONY P. (*See* Mosesson, Fletcher, and Sherry), 1003 (Abst.)
FLINK, EDMUND B. (*See* Jones, Desper, Shane, and Flink), 882 (Abst.)
FLOYD, JOHN C., JR., FAJANS, STEFAN S., CONN, JEROME W., KNOPF, RALPH F., GUNTSCHE, ENRIQUE, AND RULL, JUAN. Amino acid–induced hyperinsulinemia. Chlorpropamide enhancement only with leucine, 870 (Abst.)
FORDTRAN, JOHN S., AND LOCKLEAR, WARD. Mechanisms of intestinal absorption of sodium under physiologic conditions in man, 871 (Abst.)
FOUTS, JAMES R. (*See* Cram, Juchau, and Fouts), 906
FRANK, OSCAR. (*See* Cherrick, Baker, Frank, and Leevy), 446
FRANKS, J. J., AND REEVE, JONATHAN. Sites of fatty acid synthesis in the jejunal epithelial cell, 871 (Abst.)
FRERKING, HERBERT W. (*See* Phillips, Higginbotham, Frerking, and Paine), 1010 (Abst.)
FRETHEM, A. A. (*See* Gastineau, Frethem, Magid, Svien, and Kearns), 872 (Abst.)
FRIDMAN, J. (*See* Lewy, Cruz, Fridman, Braudo, and Metcoff), 891 (Abst.)
FURMAN, ROBERT H., HOWARD, R. PALMER, BRUSCO, OSVALDO J., AND ALAUPOVIC, PETAR. Effects of medium chain length triglyceride (MCT) on serum lipids and lipoproteins in familial hyperchylomicronemia (dietary fat–induced lipemia) and dietary carbohydrate–accentuated lipemia, 912

G

GABUZDA, GEORGE J. (*See* Schroeder, Shear, Sancetta, and Gabuzda), 1019 (Abst.)
GANI, MUKHTAR. (*See* Lange, Botticelli, Tsagaris, Walker, Gani, and Bustamante), 888 (Abst.)
GARDNER, FRANK H. (*See* Cohen, Braunwald, and Gardner), 263

GASTINEAU, C. F., FREETHEM, A. A., MAGID, G. A., SVIEN, H. J., AND KEARNS, T. P. Hyponatremia following section of the pituitary stalk, 872 (Abst.)

GEWURZ, HENRY, AND BARNETT, STEPHEN E. Profiles of serum complement components in renal disease: an indicator of pathogenesis and clinical course, 872 (Abst.)

GIDÁLI, JULIA. (*See* Fehér and Gidáli), 272

GIESCHEN, M. M. (*See* Hicks, Slack, Gieschen, and Larson), 879 (Abst.)

GILBERT, PAUL. (*See* Herbert, Gottlieb, Lau, Gilbert, and Silver), 814

GINSBERG, V. (*See* Siegel, Lee, Ginsberg, Schultz, and Wong), 715

GIORGIO, A. J., AND PLAUT, G. W. E. A method for the colorimetric determination of urinary methylmalonic acid in pernicious anemia, 667

GLADER, BERTIL E., RAMBACH, WALTER A., AND ALT, HOWARD L. Effect of testosterone on erythropoiesis in rats, 873 (Abst.)

GLENNON, JOSEPH A. Weight reduction—an enigma, 873 (Abst.)

—. (*See* Brech, Glennon, Korn, and Gordon), 858 (Abst.)

GOLDRING, DAVID. (*See* Hernandez, Goldring, and Morris), 878 (Abst.)

GONDER, MAURICE J. (*See* Barnes, Shulman, Gonder, and Soanes), 741

GOOD, ROBERT A. (*See* Cooper, Schwartz, and Good), 863 (Abst.)

GOODMAN, S. (*See* Del Greco, Simon, Goodman, and Roguska), 865 (Abst.)

GORDON, EDGAR S. (*See* Brech, Glennon, Korn, and Gordon), 858 (Abst.)

GOTTLIEB, CHESTER W. (*See* Herbert, Gottlieb, Lau, Gilbert, and Silver), 814

GRABAR, PIERRE. (*See* Grieble, Courcon, and Grabar), 216

GRAESCH, PATRICK J., AND WARD, RICHARD J. Two graphical methods for determination of dilution-curve area, 830

GRAETTINGER, JOHN S. (*See* Bowyer, Carleton, and Graettinger), 856 (Abst.)

—. (*See* Carleton, Graettinger, and Bowyer), 413

GREENE, JAMES A., JR. (*See* Abbrecht and Greene), 849 (Abst.)

GRIEBLE, HANS G., COURCON, JANINE, AND GRABAR, PIERRE. The immunochemical heterogeneity of proteins and glycoproteins in normal human urine, 216

GROVER, ROBERT F. (*See* Treger, Shaw, and Grover), 304

GUMUCIO, JORGE J. (*See* Henley, Laughrey, Hendelman, and Gumucio), 877 (Abst.)

GUNTSCHE, ENRIQUE. (*See* Floyd, Fajans, Conn, Knopf, Guntsche, and Rull), 870 (Abst.)

GUREWICH, VICTOR, AND THOMAS, DUNCAN P. Pathogenesis of venous thrombosis in relation to its prevention by dextran and heparin, 604

—. (*See* Ream, Deykin, Gurewich, and Wessler), 245

H

HAEGER-ARONSEN, BIRGITTA. (*See* Druyan and Haeger-Aronsen), 122

HALSTED, JAMES A. (*See* Prasad, Oberleas, and Halsted), 508

HAMBY, WILLIAM M., AND BERNSTEIN, LIONEL M. Unilateral renal function in reversible hypertension, 874 (Abst.)

HAMILTON, HENRY E., PETERSON, RICHARD E., AND SHEETS, RAYMOND F. A remission in pernicious anemia occurring after an acute bacterial infection, 874 (Abst.)

HAMWI, GEORGE J. (*See* Wieland, Maynard, and Hamwi), 1031 (Abst.)

HARDY, PATRICK. (*See* Perkoff, Hardy, and Velez-Garcia), 1008 (Abst.)

HARRIS, JOHN A., WHALEN, GEORGE E., AND SOERGEL, KONRAD H. Alteration of intestinal water and solute transport by antidiuretic hormone (ADH), 875 (Abst.)

HARRIS, WILLARD S. On the mechanisms causing hyperkinetic circulation in chronic anxiety states, 875 (Abst.)

HASHIMI, ALI, WILSON, FRANCIS M., WOLF, PAUL L., AND LERNER, A. MARTIN. Intrauterine infections with reovirus in mice, 876 (Abst.)

HASS, GEORGE M. (*See* Andresen, Monroe, Hass, and Weber), 851 (Abst.)

HEAD, CHARLOTTE. (*See* Levin and Head), 750

HEANEY, ROBERT P. (*See* Sullivan and Heaney), 1025 (Abst.)

HEDBERG, C. ANDERSON, AND REILLY, R. W. Intestinal lactase deficiency in immunologically induced wasting disease, 877 (Abst.)

HEINZEL, WERNER, VOGT, ARNOLD, KALLEE, EKKEHARD, AND FALLER, WILLIAM. A new method for the quantitative determination of antibody and antigen protein, with a sensitivity to five micrograms, 334

HENDELMAN, LESLIE U. (*See* Henley, Laughrey, Hendelman, and Gumucio), 877 (Abst.)

HENLEY, KEITH S., LAUGHREY, EARL G., HENDELMAN, LESLIE U., AND GUMUCIO, JORGE J. Metabolic flow rates in cirrhosis, 877 (Abst.)

HENNES, ALLEN R., AND TAKANO, TOSHIO, Quantitative importance of various lipids in glucose utilization by rat adipose tissue, 878 (Abst.)

HENNESSY, ALBERT V. (*See* Davenport, Hennessy, and Minuse), 864 (Abst.)

HERBERT, VICTOR, GOTTLIEB, CHESTER W., LAU, KAM-SENG, GILBERT, PAUL, AND SILVER, SOLOMON. Adsorption of I^{131}-triiodothyronine (T_3) from serum by charcoal as an in vitro test of thyroid function, 814

HERMAN, JEROME H. (*See* Bravo, Herman, and Smyth), 857 (Abst.)
HERMAN, ROBERT H. (*See* Canfield, Herman, Herman, and Conrad), 96
HERMAN, YAYE F. (*See* Canfield, Herman, Herman, and Conrad), 96
HERNANDEZ, ANTONIO, JR., GOLDRING, DAVID, AND MORRIS, LEN. Prophylactic digitalization, 878 (Abst.)
HESS, JOSEPH W. Phosphorylase activity and glycogen, glucose-6-phosphate, and lactic acid content of human skeletal muscle in various myopathies, 452
HEYMANN, WALTER. (*See* Okuda, Kaplan, Cuppage, and Heymann), 204
HEYWOOD, DAVID, KARON, MYRON, AND WEISSMAN, SHERMAN. Asymmetrical incorporation of amino acids in the alpha and beta chains of hemoglobin synthesized by thalassemic reticulocytes, 476
HICKS, G. P., SLACK, W. V., GIESCHEN, M. M., AND LARSON, F. C. A computer-based clinical laboratory operation, 879 (Abst.)
HICKS, G. PHILLIP. (*See* Slack, Hicks, Reed, and Van Cura), 1022 (Abst.)
HIGGINBOTHAM, HUGH B. (*See* Phillips, Higginbotham, Frerking, and Paine), 1010 (Abst.)
HINZ, JEAN E. (*See* Pisciotta and Hinz), 1011 (Abst.)
HIRSCH, E. Z. (*See* Nestel, Couzens, and Hirsch), 582
—. (*See* Nestel and Hirsch), 357
HO, HELEN H. (*See* Schmidt, Lennette, Woodie, and Ho), 403
HODES, M. E. (*See* Klein, Palmer, Yu, and Hodes), 885 (Abst.)
HOLLOWAY, DAVID H., JR., WHALEN, ROBERT E., SALTZMAN, HERBERT A., AND MCINTOSH, HENRY D. Hyperbaric oxygenation in the treatment of acute coronary artery embolization in dogs, 596
HOLMES, A. W., CAPPS, RICHARD B., AND DEINHARDT, FRIEDRICH. Results of inoculation of serum from patients with viral hepatitis into a subhuman primate, 879 (Abst.)
HOLMES, JOSEPH H. (*See* Ogden and Holmes), 1005 (Abst.)
HORIUCHI, MARTHA. (*See* Miller and Horiuchi), 84
HOUSER, HAROLD B. (*See* Weir, Houser, Dimitrov, and Suhrland), 1030 (Abst.)
HOWARD, R. PALMER. (*See* Furman, Howard, Brusco, and Alaupovic), 912
HRUBEC, Z. (*See* Blaisdell and Hrubec), 855 (Abst.)
HUFF, J. A. (*See* Davis, Huff, and Brown), 390
HUMAIR, L. (*See* Simon, Potter, Siegel, McAninch, Poon-King, Humair, and Earle), 1022 (Abst.)

I

IMRIE, MARIAN H., AND SCHILLING, ROBERT F. Studies of antibodies to intrinsic factor, 880 (Abst.)
INGRAM, M. (*See* Traynor and Ingram), 705
INSULL, WILLIAM, JR. (*See* Pohl and Insull), 1011 (Abst.)
IREDELL, JAMES. (*See* Moskowitz), 927
IUCHI, I. (*See* Kraus, Miyaji, Iuchi, and Kraus), 886 (Abst.)
IVANOVICH, PETER. (*See* DeGrazia, Ivanovich, Fellows, and Rich), 822

J

JACHAN, CHRISTA. (*See* Murphy), 161
JACKSON, CHARLES E., AND STEVENS, ADAM C. Localization of parathyroid adenomas by esophageal cineradiography, 880 (Abst.)
JENSEN, WALLACE N. (*See* Bromberg, Theodore, Robin, and Jensen), 464
JENSEN, WESLEY E. (*See* Stern and Jensen), 1024 (Abst.)
JOHNSON, CARL A. Shrinkage of the extremities, 880 (Abst.)
JOHNSON, CHARLES F. Ribosome-like particles in the apical area of absorbing intestinal cells, 881 (Abst.)
JOHNSON, EUGENE A. (*See* Tuna, Pogue, Biessener, and Johnson), 1028 (Abst.)
JOHNSTON, C. CONRAD, JR., AND DEISS, WILLIAM P., JR. An inhibitory effect of thyrocalcitonin on calcium release, 881 (Abst.)
JONES, DON P., PERMAN, EINAR S., AND LIEBER, CHARLES S. Free fatty acid turnover and triglyceride metabolism after ethanol ingestion in man, 804
JONES, JOHN E., DESPER, PAUL C., SHANE, STANLEY R., AND FLINK, EDMUND B. The relationship of thyroid function to magnesium metabolism, 882 (Abst.)
JONES, RICHARD J., AND DOBRILOVICH, LJUBICA. Variation in aortic cholesterol with the type of dietary fat in cholesterol-fed cockerels, 883 (Abst.)
JUCHAU, MONT R. (*See* Cram, Juchau, and Fouts), 906
JUREVICS, V. (*See* Wilson, Jurevics, Delaney, and Schram), 1032 (Abst.)

K

KAHN, SIGMUND BENHAM, WILLIAMS, WILLIAM J., BARNESS, LEWIS A., YOUNG, DIANE, SHAFER, BRENDA, VIVACQUA, RAYMOND J., AND BEAUPRE, EUGENE M. Methylmalonic acid excretion, a sensitive indicator of vitamin B_{12} deficiency in man, 75
KALLEE, EKKEHARD. (*See* Heinzel, Vogt, Kallee, and Faller), 334
KALLMEYER, JEFFREY C. (*See* Schwartz and Kallmeyer), 1020 (Abst.)

KANN, HERBERT E., JR. (*See* Mengel and Kann), 1002 (Abst.)
KAPLAN, MELVIN H. (*See* Okuda, Kaplan, Cuppage, and Heymann), 204
KAPLAN, NORMAN M. The incidence of primary aldosteronism in patients with "essential" hypertension, 883 (Abst.)
KARK, ROBERT M. (*See* Pollak, Rosen, Pirani, Muehrcke, and Kark), 1012 (Abst.)
KARK, STEVEN. (*See* Moskowitz), 927
KARON, MYRON. (*See* Heywood, Karon, and Weissman), 476
KAYE, MICHAEL, AND SILVERMAN, M., with the technical assistance of THIBAULT, T. Calcium metabolism in chronic renal failure, 535
KEARNS, T. P. (*See* Gastineau, Frethem, Magid, Svien, and Kearns), 872 (Abst.)
KEECH, M. K. (*See* Shimizu, McCann, and Keech), 659
KELLER, S. (*See* Rubini, Keller, and Cronkite), 483
KELLERSHOHN, C., COMAR, D., AND LE POEC, C. Determination of the mercury content of human blood by activation analysis, 168
KENNEDY, B. J., AND YARBRO, JOHN W. Metabolic and therapeutic effects of Mithramycin, 884 (Abst.)
KENNEDY, JOHN H. An inexpensive hyperbaric chamber for laboratory investigation of small animals, 532
KERN, FRED, JR. (*See* Struthers and Kern), 1024 (Abst.)
—. (*See* Vinnik, Kern, and Sussman), 131
KETTEL, LOUIS J. (*See* Addington, Kettel, Caro, and Cugell), 850 (Abst.)
KIMMELSTIEL, PAUL, OSAWA, GENGO, BERES, JOSEPH, AND SEILING, VIRGINIA. Measurements of basement membranes in normal and diabetic glomeruli, 884 (Abst.)
KINNEY, VENARD R., TAUXE, W. NEWLON, AND DEARING, WILLIAM H. Isotopic tracer studies of intestinal calcium absorption, 187
KIPNIS, DAVID M. (*See* Beck, Schalch, Parker, Kipnis, and Daughaday), 366
—. (*See* Perley and Kipnis), 1009 (Abst.)
KIPP, MARY ANN. (*See* Schloesser, Kipp, and Wenzel), 107
KIRBY, WILLIAM M. M. (*See* Bennett and Kirby), 721
KIRK, J. E., AND SANWALD, R. Biotin content of human arterial and venous tissue, 885 (Abst.)
KIRKMAN, HENRY N., SIMON, ERNEST R., AND PICKARD, BENJAMIN M. Seattle variant of glucose-6-phosphate dehydrogenase, 834
KLACHKO, DAVID M. (*See* Winer, Klachko, Baer, Langley, and Burns), 1033 (Abst.)
KLEIN, KAREN S., PALMER, CATHERINE G., YU, PAO-LO, AND HODES, M. E. Mode of action of RLP. I. Action on chromosomes, 885 (Abst.)
KLEMPERER, M. R., WOODWORTH, H. C., ROSEN, F. S., AND AUSTEN, K. F. Hereditary deficiency of the second component of human complement: transmission as an autosomal codominant trait, 886 (Abst.)
KLITE, P. D. The interpretation of agar-gel precipitin reactions in histoplasmosis, 770
KNOPF, RALPH F. (*See* Floyd, Fajans, Conn, Knopf, Guntsche, and Rull), 870 (Abst.)
KOCHWA, SHAUL. (*See* Weiss, Smith, Christoff, and Kochwa), 280
KODERA, YUTAKA. (*See* Zimmerman, Kodera, and West), 315, 324
KORN, LEONARD. (*See* Brech, Glennon, Korn, and Gordon), 858 (Abst.)
KORST, DONALD R., NIXON, JOHN C., BOBLITT, DELBERT E., AND QUIRK, JANET. Studies of selective splenic sequestration of erythrocytes labeled with radioactive mercurihydroxypropane (MHP), 788
KRAUS, A. P., MIYAJI, T., IUCHI, I., AND KRAUS, L. M. A new variety of sickle cell anemia with clinically mild symptoms due to an α chain variant of hemoglobin ($\alpha^{29\text{Leu}}\text{NH}_2$), 886 (Abst.)
KRAUS, L. M. (*See* Kraus, Miyaji, Iuchi, and Kraus), 886 (Abst.)
KRIVIT, WILLIAM. (*See* White and Krivit), 1031 (Abst.)
KUHN, E. (*See* Mosinger, Kuhn, and Kujalová), 380
KUJALOVÁ, V. (*See* Mosinger, Kuhn, and Kujalová), 380
KYLE, LAURENCE H. (*See* Clive, Ball, Meloni, Werdein, Canary, and Kyle), 841

L

LANCASTER, MARGIE G. (*See* Allison and Lancaster), 850 (Abst.)
LANDER, HARRY, LLOYD, J. V., AND SCHULTZ, B. G. Studies of platelet survival and behavior in sheep, 887 (Abst.)
LANDY, JEROME J. (*See* Abernathy and Landy), 849 (Abst.)
LANGE, RAMON L., BOTTICELLI, JAMES T., TSAGARIS, THEOFILOS J., WALKER, JOHN A., GANI, MUKHTAR, AND BUSTAMANTE, RODRIGO A. Diagnostic signs in compressive cardiac disorders: constrictive pericarditis and tamponade, 888 (Abst.)
LANGE, ROBERT D. (*See* Lewis, Alford, Rathjen, and Lange), 987
LANGLEY, PAUL L. (*See* Winer, Klachko, Baer, Langley, and Burns), 1033 (Abst.)
LANGSJOEN, PER H. Plasma protein changes in acute myocardial infarction, 888 (Abst.)
LANMAN, JONATHAN T. (*See* Orti, Baker, Lanman, and Brasch), 973

LAPPAT, E. J., AND CAWEIN, M. J. The effect of thymectomy and splenectomy on the leukemoid response in A-280 tumor–bearing mice, 889 (Abst.)

LARSON, F. C. (*See* Hicks, Slack, Gieschen, and Larson), 879 (Abst.)

LAU, KAM-SENG. (*See* Herbert, Gottlieb, Lau, Gilbert, and Silver), 814

LAUGHREY, EARL G. (*See* Henley, Laughrey, Hendelman, and Gumucio), 877 (Abst.)

LAWRENCE, A. M. Reduction in radioimmunoassayable glucagon following glucose loading in man, 889 (Abst.)

LAWRENCE, THOMAS G. (*See* Williams and Lawrence), 1032 (Abst.)

LEE, S. L. (*See* Siegel, Lee, Ginsberg, Schultz, and Wong), 715

LEEVY, CARROLL M. (*See* Cherrick, Baker, Frank, and Leevy), 446

LEMANN, JACOB, JR., AND LENNON, EDWARD J. Errors in the measurement of renal acid excretion—a reminder, 890 (Abst.)

LENNETTE, EDWIN H. (*See* Schmidt, Lennette, Woodie, and Ho), 403

LENNON, EDWARD J. (*See* Lemann and Lennon), 890 (Abst.)

LEONARDS, JACK R. (*See* Marshall, Levy, and Leonards), 1001 (Abst.)

LE POEC, C. (*See* Kellershohn, Comar, and Le Poec), 168

LERNER, A. MARTIN. (*See* Hashimi, Wilson, Wolf, and Lerner), 876 (Abst.)

LEVIN, ELINOR, AND HEAD, CHARLOTTE. Lipids of connective tissue. I. The in vitro incorporation of acetate-1-C^{14} into the neutral lipids of the carrageenin granuloma, 750

LEVY, RICHARD P. (*See* Marshall, Levy, and Leonards), 1001 (Abst.)

LEWIS, H. E., MAYER, JEAN, AND PANDISCIO, A. A. Recording skinfold calipers for the determination of subcutaneous edema, 154

LEWIS, JASPER P., ALFORD, DOROTHY A., RATHJEN, JOHN H., JR., AND LANGE, ROBERT D. Preparation of human urine concentrate for erythropoietin studies, 987

LEWIS, JERRY P., PASSOVOY, MITCHELL, AND TROBAUGH, FRANK E., JR. The impact of freezing and thawing on the repopulating potential of transplanted hematopoietic tissue, 890 (Abst.)

LEWIS, ROBERT. (*See* Moskowitz), 927

LEWY, J. E., CRUZ, H., FRIDMAN, J., BRAUDO, J. L., AND METCOFF, J. Response to alpha-ketoglutarate infusion as an index of renal metabolism in children, 891 (Abst.)

LIEBER, CHARLES S. (*See* Jones, Perman, and Lieber), 804

LIGHT, IRWIN J., BERRY, HELEN K., AND SUTHERLAND, JAMES M. Reversal of "pseudophenylketonuria of prematurity" by large doses of ascorbic acid, 892 (Abst.)

LINDSAY, PHILIP G. The half-and-half nail, 892 (Abst.)

LLOYD, J. V. (*See* Lander, Lloyd, and Schultz), 887 (Abst.)

LOCKLEAR, WARD. (*See* Fordtran and Locklear), 871 (Abst.)

LOVE, WILLIAM D., MUNFORD, ROBERT S., AND ABRAHAM, RALPH E. Comparison of the effects of l-norepinephrine, angiotensin, dipyridamole, digitoxin, and reserpine on the regional distribution of coronary blood flow, 423

LOVITZ, ALFRED, JR. (*See* Auerbach and Lovitz), 994

LUKERT, BARBARA P., MEEK, JOSEPH C., AND BOLINGER, ROBERT E. Effect of fluoride on calcium metabolism, 999 (Abst.)

LUTSKY, IRVING I. (*See* Organick and Lutsky), 1005 (Abst.)

M

MCANINCH, J. (*See* Simon, Potter, Siegel, McAninch, Poon-King, Humair, and Earle), 1022 (Abst.)

MCCANN, D. S. (*See* Shimizu, McCann, and Keech), 659

MCCREA, POLLY. (*See* Tobian, Coffee, and McCrea), 1027 (Abst.)

MCGILL, DOUGLAS B. (*See* Newcomer and McGill), 1004 (Abst.)

MCINTOSH, HENRY D. (*See* Holloway, Whalen, Saltzman, and McIntosh), 596

MACINTYRE, WILLIAM J., SCHAPIRO, ROLF L., AND SCHAPIRO, DOLORES I. The inhibitory effect of heparin on the clearance of colloidal gold by the reticuloendothelial system, 999 (Abst.)

MCKEEVER, WILLIAM P., AND BRAUN, HILDEGARDE. Mechanisms of altered myocardial function and metabolism in hemorrhagic shock, 1001 (Abst.)

MCKENNA, DAVID H. (*See* Corliss, Rowe, McKenna, Sialer, and Crumpton), 864 (Abst.)

MCLESTER, WILLIAM D., ROBERTS, HAROLD R., AND WAGNER, ROBERT H. Use of an immunosorbent technique in the study of a PTC inhibitor: a new method for the investigation of blood coagulation, 682

MCNAMARA, JAMES V. (*See* Eppes, DeGowin, McNamara, Powell, and Carson), 868 (Abst.)

MADDOCK, ROBERT. Ambulatory patient reliability in the use of antituberculous drugs, 1000 (Abst.)

MAGID, G. A. (*See* Gastineau, Frethem, Magid, Svien, and Kearns), 872 (Abst.)

MAHER, FRANK T. (*See* Tauxe and Maher), 1025 (Abst.)

MANGER, WILLIAM M., WAKIM, KHALIL G., NAHAS, GABRIEL G., DUFTON, SYDNEY, AND BEUTTELL, JEFFREY M. Influence of histamine and tyramine on plasma catecholamines before and during infusion of norepinephrine, 1000 (Abst.)

MARSHALL, JAMES S., LEVY, RICHARD P., AND LEONARDS, JACK R. The acute effect of salicylate administration on human thyroxine transport, 1001 (Abst.)

MARTT, JACK M. (*See* Winer, Martt, Somers, Wolcott, Dale, and Burns), 758

MASSAD, EMIL. (*See* Rohn, Massad, and Bond), 1016 (Abst.)

MATHAI, CLARAMMA K. (*See* Beutler, Mathai, and Baluda), 853 (Abst.)

MATTENHEIMER, HERMANN. (*See* Pollak and Mattenheimer), 564

MAYER, JEAN. (*See* Lewis, Mayer, and Pandiscio), 154

MAYNARD, DONALD E. (*See* Wieland, Maynard, and Hamwi), 1031 (Abst.)

MEEK, JOSEPH C. (*See* Lukert, Meek, and Bolinger), 999 (Abst.)

MELLMAN, WILLIAM J., AND TEDESCO, THOMAS A. An improved assay of erythrocyte and leukocyte galactose-1-phosphate uridyl transferase: stabilization of the enzyme by a thiol protective reagent, 980

MELONI, C. ROBERT. (*See* Clive, Ball, Meloni, Werdein, Canary, and Kyle), 841

MENDEL, GERALD A., with the technical assistance of CALKINS, ELLANOR, AND SCOTT, MARIANN. Studies on iron absorption. III. Increased iron absorption during liver regeneration induced by partial hepatectomy, 627

MENGEL, CHARLES E., AND KANN, HERBERT E., JR. A role of peroxidation of erythrocyte lipid in PNH hemolysis, 1002 (Abst.)

MERRITT, A. DONALD, ADAMS, JACK W., AND EFFMANN, ERIC L. Protein variability of human parotid and submaxillary secretions, 1002 (Abst.)

METCOFF, J. (*See* Lewy, Cruz, Fridman, Braudo, and Metcoff), 891 (Abst.)

MILLER, AARON, AND HORIUCHI, MARTHA. Erythrocyte glutathione. II. The effect of acetylphenylhydrazine and primaquine on the entry and incorporation of C^{14} glycine into glutathione, 84

MILLER, M. (*See* Bennett, Steinberg, Miller, and Burch), 852 (Abst.)

MILLER, M. CLINTON, III. (*See* Clark, Reinhardt, Miller, and Wilson), 34

MILLS, DAVID. (*See* Salky, Mills, and Di Luzio), 952

MINUSE, ELVA. (*See* Davenport, Hennessy, and Minuse), 864 (Abst.)

MITCHELL, MALCOLM S., AND BIEGELEISEN, JOSEPH Z., JR. The effect of penicillin on immunofluorescent staining of *Diplococcus pneumoniae, Neisseria meningitidis,* and *Hemophilus influenzae* in cerebrospinal fluid in vitro, 53

MITCHELL, W. D. The determination of iodine in feces, 677

MIYAJI, T. (*See* Kraus, Miyaji, Iuchi, and Kraus), 886 (Abst.)

MOGABGAB, WILLIAM J. *Mycoplasma pneumoniae* infections in university and military personnel, and effectiveness of vaccination, 1003 (Abst.)

MONDZAC, ALLEN, EHRLICH, GEORGE E., AND SEEGMILLER, J. E. An enzymatic determination of ammonia in biological fluids, 526

MONGELLI, JOSEPH. (*See* Rothschild, Oratz, Mongelli, and Schreiber), 733

MONROE, CLARENCE W. (*See* Andresen, Monroe, Hass, and Weber), 851 (Abst.)

MONTO, ARNOLD S. (*See* Vosti, Monto, and Rantz), 613

MOORE, MARGARET Z. (*See* Whitcomb and Moore), 641

MOORHOUSE, J. A. (*See* Faiman and Moorhouse), 869 (Abst.)

MORRIS, ALAN. (*See* Shapiro, Rosenblatt, Czajkowski, Cushing, Morris, and Wolf), 1021 (Abst.)

MORRIS, LEN. (*See* Hernandez, Goldring, and Morris), 878 (Abst.)

MOSESSON, MICHAEL W., FLETCHER, ANTHONY P., AND SHERRY, SOL. Heterogeneity of human plasma fibrinogen as an expression of fibrinogen catabolism, 1003 (Abst.)

MOSINGER, B., KUHN, E., AND KUJALOVÁ, V. Action of adipokinetic hormones on human adipose tissue in vitro, 380

MOSKOWITZ, ROLAND W., with the technical assistance of KARK, STEVEN, LEWIS, ROBERT, AND IREDELL, JAMES. Human serum necrotizing factor: basic properties and clinical significance, 927

MUEHRCKE, ROBERT C. (*See* Pollak, Rosen, Pirani, Muehrcke, and Kark), 1012 (Abst.)

MUNFORD, ROBERT S. (*See* Love, Munford, and Abraham), 423

MURDAUGH, H. V., JR. (*See* Theodore, Murdaugh, Drewry, and Robin), 1027 (Abst.)

MURPHY, BEVERLEY PEARSON, with the technical assistance of JACHAN, CHRISTA. The determination of thyroxine by competitive protein-binding analysis employing an anion-exchange resin and radiothyroxine, 161

MURRAY, M. J. The effect of gastric and intestinal secretions from normal, anemic, and hemochromatotic humans on iron absorption, 1004 (Abst.)

N

NAHAS, GABRIEL G. (*See* Manger, Wakim, Nahas, Dufton, and Beuttell), 1000 (Abst.)

NEALE, FRANCIS C. (*See* Clubb, Neale, and Posen), 493

NESTEL, P. J., COUZENS, ELIZABETH, AND HIRSCH, E. Z. Comparison of turnover of individual cholesterol esters in subjects with low and high plasma cholesterol concentrations, 582

— AND HIRSCH, E. Z. Mechanism of alcohol-induced hypertriglyceridemia, 357

NEWCOMER, ALBERT D., AND MCGILL, DOUGLAS B. Distribution of disaccharidase activity in the small intestine: definition of lactase deficiency, 1004 (Abst.)

NG, WON G., DONNELL, GEORGE N., AND BERGREN, WILLIAM R. Galactokinase activity in human erythrocytes of individuals at different ages, 115

NIXON, JOHN C. (*See* Korst, Nixon, Boblitt, and Quirk), 788

NORTH, J. D. K. (*See* Campion and North), 549

O

OBERLEAS, DONALD. (*See* Prasad, Oberleas, and Halsted), 508

OGDEN, DAVID A., AND HOLMES, JOSEPH H. Function of the human renal homograft during rejection, 1005 (Abst.)

OKUDA, ROKURO, KAPLAN, MELVIN H., CUPPAGE, FRANCIS E., AND HEYMANN, WALTER. Deposition of autologous gamma globulin in kidneys of rats with nephrotic renal disease of various etiologies, 204

OPPENHEIM, MARTIN S. (*See* Salky, Mills, and Di Luzio), 952

ORATZ, MURRAY. (*See* Rothschild, Oratz, Mongelli, and Schreiber), 733

ORGANICK, AVRUM B., AND LUTSKY, IRVING I. Experimental Mycoplasma pneumonia in germ-free mice with localization of organisms by electron microscopy, 1005 (Abst.)

ORTI, EDUARDO, BAKER, RICHARD K., LANMAN, JONATHAN T., AND BRASCH, HOWARD. Simple method for in vitro metabolic studies with continuous-flow incubation, 973

OSAWA, GENGO. (*See* Kimmelstiel, Osawa, Beres, and Seiling), 884 (Abst.)

OUELLETTE, JOHN J., AND REED, CHARLES E. The effect of partial beta adrenergic blockade on the bronchial response of hay fever subjects to ragweed aerosol, 1006 (Abst.)

OWEN, CHARLES A., JR. (*See* Bowie, Thompson, Didisheim, and Owen), 856 (Abst.)

P

PAINE, ROBERT. (*See* Phillips, Higginbotham, Frerking, and Paine), 1010 (Abst.)

PALMER, CATHERINE G. (*See* Klein, Palmer, Yu, and Hodes), 885 (Abst.)

PAMUKCU, FEVZI, STEIGMANN, FREDERICK, SZANTO, PAUL B., AND DUBIN, ALVIN. Correlation of tissue and serum enzymes in the diagnosis of jaundice, 1006 (Abst.)

PANDISCIO, A. A. (*See* Lewis, Mayer, and Pandiscio), 154

PARKER, CHARLES W. (*See* Utiger, Permutt, and Parker), 1029 (Abst.)

PARKER, MARY L. (*See* Beck, Schalch, Parker, Kipnis, and Daughaday), 366

PASSOVOY, MITCHELL. (*See* Lewis, Passovoy, and Trobaugh), 890 (Abst.)

PATTERSON, ROY, ROBERTS, MARY, AND PRUZANSKY, JACOB J. Some antigenic, biologic, and molecular characteristics of a G myeloma pyroglobulin, 1007 (Abst.)

PEARSON, JAMES E., JR. (*See* Threefoot and Pearson), 1027 (Abst.)

PECK, WILLIAM A., AND BIRGE, STANLEY J. Collagen synthesis and amino acid transport by isolated bone cells, 1008 (Abst.)

PERKINS, ROBERT L. (*See* Saslaw, Carlisle, and Perkins), 1017 (Abst.)

PERKOFF, GERALD T., HARDY, PATRICK AND VELEZ-GARCIA, ENRIQUE. A reversible "McArdle-like" syndrome in alcoholism, 1008 (Abst.)

PERLEY, MICHAEL M., AND KIPNIS, DAVID M. Differential plasma insulin responses to oral and infused glucose in normal weight and obese nondiabetic and diabetic subjects, 1009 (Abst.)

PERMAN, EINAR S. (*See* Jones, Perman, and Lieber), 804

PERMUTT, MARSHALL A. (*See* Utiger, Permutt, and Parker), 1029 (Abst.)

PETERSON, R. E., EVANS, T., AND CHENG, H. F. A double antibody immunoassay for the antibody against thyroglobulin in the human serum, 1009 (Abst.)

PETERSON, RICHARD E. (*See* Hamilton, Peterson, and Sheets), 874 (Abst.)

PHILLIPS, S. F., CODE, C. F., AND SUMMERSKILL, W. H. J. Mucosal transport of potassium and sodium in the jejunum, 1010 (Abst.)

PHILLIPS, WILLIAM J., HIGGINBOTHAM, HUGH B., FRERKING, HERBERT W., AND PAINE, ROBERT. Evaluation of myocardial state by synchronized radiography and exercise, 1010 (Abst.)

PICKARD, BENJAMIN M. (*See* Kirkman, Simon, and Pickard), 834

PIERCE, JOHN A. Tensile strength of human lung, 652

PIRANI, CONRAD L. (*See* Pollak, Rosen, Pirani, Muehrcke, and Kark), 1012 (Abst.)

PISCIOTTA, ANTHONY V., AND HINZ, JEAN E. Inhibition of DNA synthesis by chlorpromazine, 1011 (Abst.)

PLAUT, G. W. E. (*See* Giorgio and Plaut), 667

PLAIN, GEORGE L. (*See* Thomas, Plain, and Thomas), 64

POGUE, RICHARD E. (*See* Tuna, Pogue, Biessener, and Johnson), 1028 (Abst.)

POHL, STEPHEN L., AND INSULL, WILLIAM, JR. Factors governing cellular cholesterol in man: effect of disease on erythrocyte cholesterol, 1011 (Abst.)

POLLAK, VICTOR E., AND MATTENHEIMER, HERMANN. Glutaminase activity in the kidney in gout, 564

—, ROSEN, SEYMOUR, PIRANI, CONRAD L., MUEHRCKE, ROBERT C., AND KARK, ROBERT M. Lipoid nephrosis and membranous glomerulonephritis with nephrotic syndrome, 1012 (Abst.)

POON-KING, T. (*See* Simon, Potter, Siegel, McAninch, Poon-King, Humair, and Earle), 1022 (Abst.)

POSEN, SOLOMON. (*See* Clubb, Neale, and Posen), 493

POST, ROBERT S. Albumin excretion in normal rats and humans, 1012 (Abst.)

POTTER, E. V. (*See* Simon, Potter, Siegel, McAninch, Poon-King, Humair, and Earle), 1022 (Abst.)

POWELL, ROBIN D. (*See* Eppes, DeGowin, McNamara, Powell, and Carson), 868 (Abst.)

PRASAD, ANANDA S., OBERLEAS, DONALD, AND HALSTED, JAMES A., with the technical assistance of COLLINS, RAY S. Determination of zinc in biological fluids by atomic absorption spectrophotometry in normal and cirrhotic subjects, 508

—, SANDSTEAD, HAROLD H., SCHULERT, ARTHUR R., FARID, ZOHEIR, AND DARBY, WILLIAM J. Role of zinc in the syndrome of anemia, dwarfism, hypogonadism, and hepatosplenomegaly, 1013 (Abst.)

PREMACHANDRA, B. N., BERNS, A. W., AND BLUMENTHAL, H. T. Physiological aspects of thyroglobulin immunity. III. Studies of localization of antibodies in vascular tissue and abnormal plasma thyroxine binding in the guinea pig, 893

PRUZANSKY, JACOB J. (*See* Patterson, Roberts, and Pruzansky), 1007 (Abst.)

Q

QUIE, PAUL G. Atypical colony forms in patients with staphylococcal disease, 1013 (Abst.)

QUIGLEY, ALICIA. (*See* Watson, Quigley, and Bolt), 1030 (Abst.)

QUIRK, JANET. (*See* Korst, Nixon, Boblitt, and Quirk), 788

R

RAEFF, V. M. (*See* Adel, Deming, Daly, Raeff, and Brun), 571

RAMBACH, WALTER A. (*See* Glader, Rambach, and Alt), 873 (Abst.)

RANDOLPH, THERON G. Housing and the chemical environment, 1014 (Abst.)

RANTZ, LOWELL A. (*See* Vosti, Monto, and Rantz), 613

RATHJEN, JOHN H., JR. (*See* Lewis, Alford, Rathjen, and Lange), 987

RATNOFF, OSCAR D. (*See* Donaldson, Ratnoff, and Rosen), 867 (Abst.)

REAM, V. JANE, DEYKIN, DANIEL, GUREWICH, VICTOR, AND WESSLER, STANFORD. The aggregation of human platelets by bacterial endotoxin, 245

REDDIN, J. L. (*See* Starzecki, Reddin, Zak, Braude, and Spink), 1023 (Abst.)

REED, CHARLES E. (*See* Ouellette and Reed), 1006 (Abst.)

—. (*See* Slack, Hicks, Reed, and Van Cura), 1022 (Abst.)

REEVE, E. B. (*See* Atencio, Bailey, and Reeve), 1

—. (*See* Atencio, Burdick, and Reeve), 137

—. (*See* Atencio and Reeve), 20

REEVE, JONATHAN. (*See* Franks and Reeve), 871 (Abst.)

REILLY, R. W. (*See* Hedberg and Reilly), 877 (Abst.)

REINHARDT, HERBERT. (*See* Clark, Reinhardt, Miller, and Wilson), 34

RENAUD, S. Anticoagulants in the prevention of endotoxin-induced phlebothrombosis in the rat, 253

RICH, CLAYTON. (*See* DeGrazia, Ivanovich, Fellows, and Rich), 822

RICHARDS, A. M., AND ANDERSON, W. R. Clinical and experimental cholesterol embolism, 1015 (Abst.)

RIESELBACH, RICHARD E. (*See* Shankel, Robson, Rieselbach, and Bricker), 1020 (Abst.)

—. (*See* Sorensen and Rieselbach), 1023 (Abst.)

ROBERTS, HAROLD R. (*See* McLester, Roberts, and Wagner), 682

ROBERTS, MARY. (*See* Patterson, Roberts, and Pruzansky), 1007 (Abst.)

ROBIN, EUGENE D. (*See* Bromberg, Theodore, Robin, and Jensen), 464

—. (*See* Theodore, Murdaugh, Drewry, and Robin), 1027 (Abst.)

ROBINSON, STEPHEN H., TSONG, MARIA, BROWN, BARRY W., AND SCHMID, RUDI. Sites and kinetics of bile pigment formation in the rat, 1015 (Abst.)

ROBSON, ALAN M. (*See* Shankel, Robson, Rieselbach, and Bricker), 1020 (Abst.)

ROGUSKA, J. (*See* Del Greco, Simon, Goodman, and Roguska), 865 (Abst.)

ROHN, ROBERT J., MASSAD, EMIL, AND BOND, WILLIAM H. Prediction of the transmission of hemophilia on the basis of assay of Factors VIII and IX, 1016 (Abst.)

ROITT, IVAN M. (*See* Schmid and Roitt), 1019 (Abst.)

ROSEN, F. S. (*See* Klemperer, Woodworth, Rosen, and Austen), 886 (Abst.)

ROSEN, FRED S. (*See* Donaldson, Ratnoff, and Rosen), 867 (Abst.)

ROSEN, SEYMOUR. (*See* Pollak, Rosen, Pirani, Muehrcke, and Kark), 1012 (Abst.)

ROSENBERG, E. WILLIAM. (*See* Bicks and Rosenberg), 854 (Abst.)

ROSENBLATT, MELVYN. (*See* Shapiro, Rosenblatt, Czajkowski, Cushing, Morris, and Wolf), 1021 (Abst.)

ROSENTHAL, ROBERT L., AND SLOAN, ESTHER. PTA (Factor XI) levels and coagulation studies after plasma infusions in PTA-deficient patients, 709

ROSENTHAL, SOL ROY, CROUSE, G., AND SPURRIER, W. Human "burn toxin" and its neutralization, 1016 (Abst.)

ROTHENBERG, SHELDON P. A radioenzymatic assay for folic acid antagonists in biological fluids, 294

ROTHSCHILD, MARCUS A., ORATZ, MURRAY, MONGELLI, JOSEPH, AND SCHREIBER, SIDNEY S. Albumin metabolism in rabbits during gamma globulin infusions, 733

ROVNER, DAVID R. (*See* Conn, Rovner, and Cohen), 863 (Abst.)

ROWE, GEORGE G. (*See* Corliss, Rowe, McKenna, Sialer, and Crumpton), 864 (Abst.)

RUBINI, JOSEPH R., KELLER, S., AND CRONKITE, EUGENE P. In vitro DNA labeling of bone marrow and leukemic blood leukocytes with tritiated thymidine. I. Physical and chemical factors which affect autoradiographic cell labeling, 483

RUBINSTEIN, H. (*See* Dietz, Czebotar, and Rubinstein), 866 (Abst.)

RUINEN, L. (*See* Boeré, Ruinen, and Scholten), 943

RULL, JUAN. (*See* Floyd, Fajans, Conn, Knopf, Guntsche, and Rull), 870 (Abst.)

RUSH, BRYAN, FIGALLO, MANUEL A., AND BROWN, ELMER B. The effect of a low-iron diet on human iron absorption, 1017 (Abst.)

S

SALKY, NATHAN K., AND DI LUZIO, NICHOLAS R. Activity of the reticuloendothelial system (RES) in neoplastic disease, 1017 (Abst.)

—, MILLS, DAVID, AND DI LUZIO, NICHOLAS R., with the technical assistance of OPPENHEIM, MARTIN S. Activity of the reticuloendothelial system in diseases of altered immunity, 952

SALOMAN, H. S. (*See* Dietschy, Saloman, and Siperstein), 865 (Abst.)

SALTZMAN, HERBERT A. (*See* Holloway, Whalen, Saltzman, and McIntosh), 596

SANCETTA, SALVATORE M. (*See* Schroeder, Shear, Sancetta, and Gabuzda), 1019 (Abst.)

SANDSTEAD, HAROLD H. (*See* Prasad, Sandstead, Schulert, Farid, and Darby), 1013 (Abst.)

SANWALD, R. (*See* Kirk and Sanwald), 885 (Abst.)

SASLAW, SAMUEL, CARLISLE, HAROLD N., AND PERKINS, ROBERT L. Comparison of 1963 and 1964 influenza vaccine in elderly and young people, 1017 (Abst.)

SATO, TATSUO L. The quantitative determination of 3-methoxy-4-hydroxyphenylacetic acid (homovanillic acid) in urine, 517

SCHALCH, DON S. (*See* Beck, Schalch, Parker, Kipnis, and Daughaday), 366

SCHAPIRO, DOLORES I. (*See* MacIntyre, Schapiro, and Schapiro), 999 (Abst.)

SCHAPIRO, ROLF L. (*See* MacIntyre, Schapiro, and Schapiro), 999 (Abst.)

SCHENKER, STEVEN, AND COMBES, BURTON. The in vivo role of hepatic adenosinetriphosphate (ATP) in sulfobromophthalein (BSP) metabolism, 1018 (Abst.)

SCHILLING, ROBERT F. (*See* Imrie and Schilling), 880 (Abst.)

SCHLOESSER, LEE L., KIPP, MARY ANN, AND WENZEL, FREDERICK J. Thrombocytosis in iron-deficiency anemia, 107

SCHMID, FRANK R., AND ROITT, IVAN M. Inhibition of complement action by rheumatoid factor, 1019 (Abst.)

SCHMID, RUDI. (*See* Robinson, Tsong, Brown, and Schmid), 1015 (Abst.)

SCHMIDT, NATHALIE J., LENNETTE, EDWIN H., WOODIE, JAMES D., AND HO, HELEN H. Immunofluorescent staining in the laboratory diagnosis of varicella-zoster virus infections, 403

SCHOLTEN, J. H. (*See* Boeré, Ruinen, and Scholten), 943

SCHRAM, A. (*See* Wilson, Jurevics, Delaney, and Schram), 1032 (Abst.)

SCHRIEBER, SIDNEY S. (*See* Rothschild, Oratz, Mongelli, and Schreiber), 733

SCHROEDER, EDWARD T., SHEAR, LEROY, SANCETTA, SALVATORE M., AND GABUZDA, GEORGE J. Para-aminohippurate (PAH) transport in the renal failure of cirrhosis, 1019 (Abst.)

SCHULERT, ARTHUR R. (*See* Prasad, Sandstead, Schulert, Farid, and Darby), 1013 (Abst.)

SCHULTZ, B. G. (*See* Lander, Lloyd, and Schultz), 887 (Abst.)

SCHULTZ, F. (*See* Siegel, Lee, Ginsberg, Schultz, and Wong), 715

SCHWARTZ, FRANKLIN D., AND KALLMEYER, JEFFREY C. Double-isotope studies of renal function in man, 1020 (Abst.)

SCHWARTZ, M. A. (*See* Zimmerman, Schwartz, Boley, and West), 961

SCHWARTZ, MELVIN M. (*See* Cooper, Schwartz, and Good), 863 (Abst.)

SCHWARTZ, STEVEN O. (*See* Brown and Schwartz), 859 (Abst.)

SCOTT, MARIANN. (*See* Mendel), 627

SEEGMILLER, J. E. (*See* Mondzac, Ehrlich, and Seegmiller), 526

—. (*See* Watts, Watts, and Seegmiller), 688

SEILING, VIRGINIA. (*See* Kimmelstiel, Osawa, Beres, and Seiling), 884 (Abst.)

SHAFER, BRENDA. (*See* Kahn, Williams, Barness, Young, Shafer, Vivacqua, and Beaupre), 75

SHANE, STANLEY R. (*See* Jones, Desper, Shane, and Flink), 882 (Abst.)

SHANKEL, STEWART, ROBSON, ALAN M., RIESELBACH, RICHARD, AND BRICKER, NEAL S. The effects of functional adaptations on nephron homogeneity in the diseased kidney of the rat, 1020 (Abst.)

SHAPIRO, JACK, ROSENBLATT, MELVYN, CZAJKOWSKI, NORBERT, CUSHING, FREDERICK, MORRIS, ALAN, AND WOLF, PAUL. An autoimmune approach to experimental and clinical cancer, 1021 (Abst.)

SHAW, DAVID B. (*See* Treger, Shaw, and Grover), 304

SHEAR, LEROY, CASTELLOT, JOHN J., AND BARRY, KEVIN G. Peritoneal fluid absorption. I. Effect of dehydration on kinetics, 232

—. (*See* Schroeder, Shear, Sancetta, and Gabuzda), 1019 (Abst.)

SHEETS, RAYMOND F. (*See* Hamilton, Peterson, and Sheets), 874 (Abst.)

SHERMAN, LAWRENCE. Reproducibility and reliability of results obtained with the Vallance-Owen ("synalbumin") insulin antagonist, 1021 (Abst.)

SHERRY, SOL. (*See* Mosesson, Fletcher, and Sherry), 1003 (Abst.)

SHIMIZU, Y., MCCANN, D. S., AND KEECH, M. K. Human dermal fibroblasts in monolayer tissue culture. Effect of ascorbic acid analogues, 659

SHULMAN, SIDNEY. (*See* Barnes, Shulman, Gonder, and Soanes), 741

SIALER, SALVADOR. (*See* Corliss, Rowe, McKenna, Sialer, and Crumpton), 864 (Abst.)

SIEGEL, A. C. (*See* Simon, Potter, Siegel, McAninch, Poon-King, Humair, and Earle), 1022 (Abst.)

SIEGEL, M., LEE, S. L., GINSBERG, V., SCHULTZ, F., AND WONG, WM. Racial differences in serum gamma globulin levels; comparative data for Negroes, Puerto Ricans, and other Caucasians, 715

SILVER, SOLOMON. (*See* Herbert, Gottlieb, Lau, Gilbert, and Silver), 814

SILVERMAN, M. (*See* Kaye and Silverman), 535

SIMMONS, DANIEL H. (*See* Chapman, Smith, and Simmons), 698

SIMON, ERNEST R. (*See* Kirkman, Simon, and Pickard), 834

SIMON, N. M. (*See* Del Greco, Simon, Goodman, and Roguska), 865 (Abst.)

SIMON, N. S., POTTER, E. V., SIEGEL, A. C., MCANINCH, J., POON-KING, T., HUMAIR, L., AND EARLE, D. P. Epidemic nephritis in Trinidad, 1022 (Abst.)

SIPERSTEIN, M. D. (*See* Dietschy, Saloman, and Siperstein), 865 (Abst.)

SLACK, W. V. (*See* Hicks, Slack, Gieschen, and Larson), 879 (Abst.)

SLACK, WARNER V., HICKS, G. PHILLIP, REED, CHARLES E., AND VAN CURA, LAWRENCE J. A computer-based medical history system, 1022 (Abst.)

SLOAN, ESTHER. (*See* Rosenthal and Sloan), 709

SMITH, EUGENE. (*See* Weiss, Smith, Christoff, and Kochwa), 280

SMITH, LEO M. (*See* Chapman, Smith, and Simmons), 698

SMITH, ROBERT E. (*See* Tennenbaum and Smith), 1026 (Abst.)

SMYTH, CHARLEY J. (*See* Bravo, Herman, and Smyth), 857 (Abst.)

SOANES, WARD A. (*See* Barnes, Shulman, Gonder, and Soanes), 741

SOERGEL, KONRAD H. (*See* Harris, Whalen, and Soergel), 875 (Abst.)

SOMERS, JOHN E. (*See* Winer, Martt, Somers, Wolcott, Dale, and Burns), 758

SORENSEN, LEIF B., AND RIESELBACH, RICHARD E. Cure of gout by renal homotransplantation, 1023 (Abst.)

SPINK, W. W. (*See* Starzecki, Reddin, Zak, Braude, and Spink), 1023 (Abst.)

SPURRIER, W. (*See* Rosenthal, Crouse, and Spurrier), 1016 (Abst.)

STARZECKI, B., REDDIN, J. L., ZAK, S. J., BRAUDE, A. I., AND SPINK, W. W. The fate of Cr^{51}-labeled endotoxin in normal dogs and in dogs with increased resistance to endotoxin, 1023 (Abst.)

STEIGMANN, FREDERICK. (*See* Pamukcu, Steigmann, Szanto, and Dubin), 1006 (Abst.)

STEINBERG, A. G. (*See* Bennett, Steinberg, Miller, and Burch), 852 (Abst.)

STERN, BABETTE, AND JENSEN, WESLEY E. Active transport of glucose by isolated intestinal epithelial cells, 1024 (Abst.)

STEVENS, ADAM C. (*See* Jackson and Stevens), 880 (Abst.)

STRUTHERS, JOHN E., JR., AND KERN, FRED, JR. Studies of lactase-deficient patients: jejunal perfusion of sucrose and lactose, 1024 (Abst.)

SUHRLAND, LEIF G. (*See* Weir, Houser, Dimitrov, and Suhrland), 1030 (Abst.)

SULLIVAN, JAMES F., AND HEANEY, ROBERT P. Zinc-65 metabolism in patients with cirrhosis, 1025 (Abst.)

SUMMERSKILL, W. H. J. (*See* Phillips, Code, and Summerskill), 1010 (Abst.)

SUSSMAN, KARL E. (*See* Vinnik, Kern, and Sussman), 131

SUTHERLAND, JAMES M. (*See* Light, Berry, and Sutherland), 892 (Abst.)

SVIEN, H. J. (*See* Gastineau, Frethem, Magid, Svien, and Kearns), 872 (Abst.)

SZANTO, PAUL B. (*See* Pamukcu, Steigmann, Szanto, and Dubin), 1006 (Abst.)

T

TAKANO, TOSHIO. (*See* Hennes and Takano), 878 (Abst.)

TAN, MARGARET, AND EPSTEIN, WALLACE V. A direct immunologic assay of human sera for Bence Jones proteins (L-chains), 344

TAUXE, W. NEWLON, AND MAHER, FRANK T. Ortho-iodohippurate volumes of distribution in man, 1025 (Abst.)

—. (*See* Kinney, Tauxe, and Dearing), 187

TEDESCO, THOMAS A. (*See* Mellman and Tedesco), 980

TENNENBAUM, JAMES I., AND SMITH, ROBERT E. Antimalarial therapy for resistant asthma, 1026 (Abst.)

THEODORE, JAMES, MURDAUGH, H. V., JR., DREWRY, WILLIAM, AND ROBIN, EUGENE D. Loss of dinitrophenol (DNP) effect on oxidative metabolism at low temperatures, 1027 (Abst.)

—. (*See* Bromberg, Theodore, Robin, and Jensen), 464

THIBAULT, T. (*See* Kaye and Silverman), 535

THOMAS, DOROTHY. (*See* Thomas, Plain, and Thomas), 64

THOMAS, DUNCAN P. (*See* Gurewich and Thomas), 604

THOMAS, E. DONNALL, PLAIN, GEORGE L., AND THOMAS, DOROTHY. Leukocyte kinetics in the dog studied by cross circulation, 64

THOMPSON, JOHN H., JR. (*See* Bowie, Thompson, Didisheim, and Owen), 856 (Abst.)

THREEFOOT, SAM A., AND PEARSON, JAMES E., JR. Effects of plastic occlusion of major lymph channels in living dogs, 1027 (Abst.)

TOBIAN, LOUIS, COFFEE, KAREN, AND MCCREA, POLLY. Contrasting total exchangeable sodium levels in rats with two different types of Goldblatt hypertension, 1027 (Abst.)

TODD, D. (*See* Chan, Todd, and Wong), 937

TRAYNOR, J. E., AND INGRAM, M. A membrane filter technique for enumerating megakaryocytes, 705

TREGER, ALBERT, SHAW, DAVID B., AND GROVER, ROBERT F. Secondary polycythemia in adolescents at high altitude, 304

TROBAUGH, FRANK E., JR. (*See* Lewis, Passovoy, and Trobaugh), 890 (Abst.)

TSAGARIS, THEOFILOS J. (*See* Lange, Botticelli, Tsagaris, Walker, Gani, and Bustamante), 888 (Abst.)

TSONG, MARIA. (*See* Robinson, Tsong, Brown, and Schmid), 1015 (Abst.)

TUNA, NAIP, POGUE, RICHARD E., BIESSENER, WILLIAM D., AND JOHNSON, EUGENE A. Problems in choosing pertinent information from the vectorcardiogram and in evaluating diagnosis rules, 1028 (Abst.)

TURSI, ALFREDO. (*See* Bonomo, Tursi, and Dammacco), 42

U

UTIGER, ROBERT D., PERMUTT, MARSHALL A., AND PARKER, CHARLES W. The antigenic specificity and radioimmunoassay of lysine vasopressin, 1029 (Abst.)

V

VAN CURA, LAWRENCE J. (*See* Slack, Hicks, Reed, and Van Cura), 1022 (Abst.)

VELEZ-GARCIA, ENRIQUE. (*See* Perkoff, Hardy, and Velez-Garcia), 1008 (Abst.)

VIJH, K. MARION. (*See* Aprile, Vijh, and Wardlaw), 146

VINNIK, IRWIN E., KERN, FRED, JR., AND SUSSMAN, KARL E. The effect of diabetes mellitus and insulin on glucose absorption by the small intestine in man, 131

VIVACQUA, RAYMOND J. (*See* Kahn, Williams, Barness, Young, Shafer, Vivacqua, and Beaupre), 75

VOGT, ARNOLD. (*See* Heinzel, Vogt, Kallee, and Faller), 334

VOSTI, KENNETH L., MONTO, ARNOLD S., AND RANTZ, LOWELL A. Host-parasite interaction in patients with infections due to *Escherichia coli*. II. Serologic response of the host, 613

W

WAGNER, ROBERT H. (*See* McLester, Roberts, and Wagner), 682

WAKIM, KHALIL G. (*See* Manger, Wakim, Nahas, Dufton, and Beuttell), 1000 (Abst.)

WALKER, JOHN A. (*See* Lange, Botticelli, Tsagaris, Walker, Gani, and Bustamante), 888 (Abst.)

WARD, RICHARD J. (*See* Graesch and Ward), 830

WARDLAW, ALASTAIR C. (*See* Aprile, Vijh, and Wardlaw), 146

WARNER, EMORY D. (*See* Armstrong, Connor, and Warner), 851 (Abst.)

WARREN, KENNETH S., AND WEISBERGER, AUSTIN S. The effect of chloramphenicol on schistosomiasis mansoni in the snail, 1029 (Abst.)

WATSON, DAVID W., QUIGLEY, ALICIA, AND BOLT, ROBERT J. The effect of lymphocytes from patients with ulcerative colitis on adult colon epithelial cells, 1030 (Abst.)

WATTS, JOAN E. M. (*See* Watts, Watts, and Seegmiller), 688

WATTS, RICHARD W. E., WATTS, JOAN E. M., AND SEEGMILLER, J. E. Xanthine oxidase activity in human tissues and its inhibition by allopurinol (4-hydroxypyrazolo [3,4-d] pyrimidine), 688

WEBER, DOROTHY A. (*See* Andresen, Monroe, Hass, and Weber), 851 (Abst.)

WEISBERGER, AUSTIN S. (*See* Warren and Weisberger), 1029 (Abst.)

WEIR, DAVID R., HOUSER, HAROLD B., DIMITROV, NIKOLAY, AND SUHRLAND, LEIF G. Unexplained anemia in chronic illness, 1030 (Abst.)

WEISMAN, SAMUEL A. (*See* Egstrom and Weisman), 868 (Abst.)

WEISS, ARTHUR H., SMITH, EUGENE, CHRISTOFF, NICHOLAS, AND KOCHWA, SHAUL. Cerebrospinal fluid paraproteins in multiple myeloma, 280

WEISSMAN, SHERMAN. (*See* Heywood, Karon, and Weissman), 476

WENZEL, FREDERICK J. (*See* Schloesser, Kipp, and Wenzel), 107

WERDEIN, EDWARD J. (*See* Clive, Ball, Meloni, Werdein, Canary, and Kyle), 841

WESSLER, STANFORD. (*See* Ream, Deykin, Gurewich, and Wessler), 245

WEST, M. (*See* Zimmerman, Schwartz, Boley, and West), 961

WEST, MICHAEL. (*See* Zimmerman, Kodera, and West), 315, 324

WHALEN, GEORGE E. (*See* Harris, Whalen, and Soergel), 875 (Abst.)

WHALEN, ROBERT E. (*See* Holloway, Whalen, Saltzman, and McIntosh), 596

WHITCOMB, WALTER H., AND MOORE, MARGARET Z. The inhibitory effect of plasma from hypertransfused animals on erythrocyte iron incorporation in mice, 641

WHITE, JAMES G., AND KRIVIT, WILLIAM. Platelet acid phosphatase: a possible role in the release of platelet phospholipid, 1031 (Abst.)

WILSON, FRANCIS M. (*See* Hashimi, Wilson, Wolf, and Lerner), 876 (Abst.)

WIELAND, RALPH G., MAYNARD, DONALD E., AND HAMWI, GEORGE J. Blood 21-deoxycortisol isolation in congenital adrenal hyperplasia, 1031 (Abst.)

WILLIAMS, GALE. (*See* Carey and Williams), 860 (Abst.)

WILLIAMS, RALPH C., JR., AND LAWRENCE, THOMAS G. Antigenic sites on human γ-globulins dependent on disulfide bonds, 1032 (Abst.)

—. (*See* Wollheim and Williams), 433

WILLIAMS, WILLIAM J. (*See* Kahn, Williams, Barness, Young, Shafer, Vivacqua, and Beaupre), 75

WILSON, R. H., JUREVICS, V., DELANEY, R., AND SCHRAM, A. Comparative immunochemical properties of nucleoproteins. IV. Antigenic properties of canine hemangiopericytoma, 1032 (Abst.)

WILSON, RAY. (*See* Clark, Reinhardt, Miller, and Wilson), 34

WINER, NATHANIEL, KLACHKO, DAVID M., BAER, ROBERT D., LANGLEY, PAUL L., AND BURNS, THOMAS W. Induction of myotonia by steroidal inhibitors of cholesterol biosynthesis, 1033 (Abst.)

—, MARTT, JACK M., SOMERS, JOHN E., WOLCOTT, LESTER, DALE, HOMER E., AND BURNS, THOMAS W. Induced myotonia in man and goat, 758

WINSHIP, DANIEL H., AND ZBORALSKE, F. FRANK. A nonperistaltic mechanism of esophageal transport in man, 1033 (Abst.)

WOLCOTT, LESTER. (*See* Winer, Martt, Somers, Wolcott, Dale, and Burns), 758

WOLF, PAUL. (*See* Shapiro, Rosenblatt, Czajkowski, Cushing, Morris, and Wolf), 1021 (Abst.)

WOLF, PAUL L. (*See* Hashimi, Wilson, Wolf, and Lerner), 876 (Abst.)

WOLLHEIM, FRANK A., AND WILLIAMS, RALPH C., JR. Immunoglobulin studies in six kindreds of patients with adult hypogammaglobulinemia, 433

WONG, C. C. (*See* Chan, Todd, and Wong), 937

WONG, WM. (*See* Siegel, Lee, Ginsberg, Schultz, and Wong), 715

WOODIE, JAMES D. (*See* Schmidt, Lennette, Woodie, and Ho), 403

WOODWORTH, H. C. (*See* Klemperer, Woodworth, Rosen, and Austen), 886 (Abst.)

Y

YARBRO, JOHN W. (*See* Kennedy and Yarbro), 884 (Abst.)

YU, PAO-LO. (*See* Klein, Palmer, Yu, and Hodes), 885 (Abst.)

YUNIS, ADEL A., AND ARIMURA, GRACE K. Amino acid transport in blood cells. II. Patterns of transport of some amino acids in mammalian reticulocytes and mature red blood cells, 177

—. (*See* Burningham and Yunis), 860 (Abst.)

YOUNG, DIANE. (*See* Kahn, Williams, Barness, Young, Shafer, Vivacqua, and Beaupre), 75

Z

ZAK, S. J. (*See* Starzecki, Reddin, Zak, Braude, and Spink), 1023 (Abst.)
ZAKY, ABID. (*See* Feigenbaum and Zaky), 869 (Abst.)
ZBORALSKE, F. FRANK. (*See* Winship and Zboralske), 1033 (Abst.)
ZIMMERMAN, H. J., SCHWARTZ, M. A., BOLEY, L. E., AND WEST, M. Comparative serum enzymology, 961
ZIMMERMAN, HYMAN J., KODERA, YUTAKA, AND WEST, MICHAEL. Effects of carbon tetrachloride poisoning on the plasma levels of cytoplasmic and mitochondrial enzymes in animals with nutritional fatty metamorphosis, 324
—, —, AND —. Rate of increase in plasma levels of cytoplasmic and mitochondrial enzymes in experimental carbon tetrachloride hepatotoxicity, 315

Subject index*

A

Acetate-1-C^{14}, in vitro incorporation into neutral lipids of carrageenin granuloma, 750

Acetylphenylhydrazine and primaquine, effect on entry and incorporation of C^{14} glycine into erythrocyte glutathione, 84

Acid, amino. (*See* amino acid)

ascorbic, analogues, effect on human dermal fibroblasts in monolayer tissue culture, 659

reversal of "pseudophenylketonuria of prematurity" by large doses of, 892 (Abst.)

fatty, synthesis in jejunal epithelial cell, sites of, 871 (Abst.)

folic, antagonists in biological fluids, radioenzymatic assay for, 294

homovanillic (3-methoxy-4-hydroxyphenylacetic acid), quantitative determination in urine, 517

lactic, and glycogen and glucose-6-phosphate content of human skeletal muscle in various myopathies, phosphorylase activity and, 452

lithocholic, in serum of patients with liver disease, 860 (Abst.)

methylmalonic, excretion, sensitive indicator of vitamin B_{12} deficiency in man, 75

urinary, colorimetric determination of in pernicious anemia, 667

phosphatase, platelet, possible role in platelet phospholipid release, 1031 (Abst.)

renal, errors in measurement of excretion, 890 (Abst.)

Acidosis, metabolic, during hemorrhagic shock, hypothermia as protection against, 867 (Abst.)

Acids, amino, asymmetrical incorporation of in alpha and beta chains of hemoglobin synthesized by thalassemic reticulocytes, 476

Acromegaly, correlative studies of growth hormone and insulin plasma concentrations with metabolic abnormalities in, 366

Activation analysis, determining mercury content in human blood by, 168

Adaptations, functional, effects on nephron homogeneity in diseased rat kidney, 1020 (Abst.)

Adenomas, parathyroid, localization by esophageal cineradiography, 880 (Abst.)

Adenosinetriphosphate, erythrocyte, genetic and population studies of, 858 (Abst.)

(ATP), hepatic, in vivo role in sulfobromophthalein (BSP) metabolism, 1018 (Abst.)

ADH (antidiuretic hormone), alteration of intestinal water and solute transport by, 875 (Abst.)

Adhesive and phagocytic characteristics of leukocytes from human donors, influence of nucleotides upon, 850 (Abst.)

Adipokinetic hormones, action on human adipose tissue, 380

Adipose tissue, human, action of adipokinetic hormones on, 380

rat, quantitative importance of various lipids in glucose utilization by, 878 (Abst.)

Adolescents at high altitude, secondary polycythemia in, 304

Adrenal hyperplasia, congenital, blood 21-deoxycortisol isolation in, 1031 (Abst.)

Adrenergic beta blockade, partial, effect on bronchial response of hay fever subjects to ragweed aerosol, 1006 (Abst.)

Adult hypogammaglobulinemia, immunoglobulin studies in six kindreds of patients with, 433

Aerosol, ragweed, effect of partial beta adrenergic blockade on bronchial response of hay fever subjects to, 1006 (Abst.)

Agammaglobulinemia and dysgammaglobulinemia, experimental, in chickens, 863, (Abst.)

Aggregation of human platelets by bacterial endotoxin, 245

*July, pp. 1-176; August, pp. 177-356; September, pp. 357-534; October, pp. 535-708; November, pp. 709-892; December, pp. 893-1074.

Aging, effect on glucose tolerance test, 852 (Abst.)
Albumin excretion in normal rats and humans, 1012 (Abst.)
metabolism in rabbits during gamma globulin infusions, 733
Alcohol-induced hypertriglyceridemia, mechanism of, 357
Alcoholism, reversible McArdle-like syndrome in, 1008 (Abst.)
Aldosteronism, primary, incidence in patients with "essential" hypertension, 883 (Abst.)
normokalemic, a frequent cause of curable "essential" hypertension, 863 (Abst.)
Alkaline phosphatase, human placental, infused in human subjects, 493
Allopurinol (4-hydroxypyrazolo [3, 4-d] pyrimidine), xanthine oxidase activity in human tissues and its inhibition by, 688
Alpha and beta chains of hemoglobin synthesized by thalassemic reticulocytes, asymmetrical incorporation of amino acids in, 476
chain variant of hemoglobin (α^{2G1uNH_2}), in new variety of sickle cell anemia with clinically mild symptoms due to, 886 (Abst.)
Alpha-ketoglutarate infusion, response to as index of renal metabolism in children, 891 (Abst.)
Alpha-1-lipoprotein, human serum, evidence of heterogeneity, 862 (Abst.)
Alternation, electrical, study with ultrasound-cardiography, 869 (Abst.)
Ambulatory patient reliability in use of antituberculous drugs, 1000 (Abst.)
Amino acid transport and collagen synthesis by isolated bone cells, 1008 (Abst.)
patterns in mammalian reticulocytes and mature red blood cells, 177
acid–induced hyperinsulinemia, chlorpropamide enhancement only with leucine, 870 (Abst.)
acids in alpha and beta chains of hemoglobin synthesized by thalassemic reticulocytes, asymmetrical incorporation of, 476
2-Amino-2-hydroxymethyl-1,3-propanediol (Tris; THAM), determination in urine by titration, 698
Ammonia in biological fluids, enzymatic determination of, 526
Amyloid, splenic, human, electron microscopic studies on fibrillar component of, 943
Analogues, ascorbic acid, effect on human dermal fibroblasts in monolayer tissue culture, 659
Anemia, aplastic, as late radiation effect, evidence from atomic bomb survivors, 855 (Abst.)
dwarfism, hypogonadism, and hepatosplenomegaly, role of zinc in syndrome of, 1013 (Abst.)
Anemia—Cont'd
hemolytic, refractory, associated with glucose-6-phosphate dehydrogenase deficiency and hemosiderosis, 96
iron-deficiency, thrombocytosis in, 107
pernicious, colorimetric determination of urinary methylmalonic acid in, 667
remission after acute bacterial infection, 874 (Abst.)
sickle cell, new variety, with clinically mild symptoms due to α chain variant of hemoglobin (α^{2G1uNH_2}), 886 (Abst.)
unexplained, in chronic illness, 1030 (Abst.)
Anemic, normal, and hemochromatotic humans, effect of gastric and intestinal secretions from on iron absorption, 1004 (Abst.)
Angioneurotic edema, hereditary, permeability properties of plasma in, 867 (Abst.)
Angiotensin infusion test, renin assay, differential renal function, and aortography in hypertension, 865 (Abst.)
l-norepinephrine, dipyridamole, digitoxin, and reserpine, comparison of effects on regional distribution of coronary blood flow, 423
Anion and hydrogen ion distribution in blood, 464
Anion-exchange resin and radiothyroxine, determination of thyroxine by competitive protein-binding analysis with, 161
Antagonist, insulin, Vallance-Owen (synalbumin), reproducibility and reliability of results with, 1021 (Abst.)
Antagonists, folic acid, in biological fluids, radioenzymatic assay for, 294
Antibodies to intrinsic factor, 880 (Abst.)
localization in vascular tissue and abnormal plasma thyroxine binding in guinea pigs, physiological aspects of thyroglobulin immunity, 893
producing homogeneous and speckled fluorescence patterns of cell nuclei, characterization of, 42
Antibody and antigen protein, new method for quantitative determination, with sensitivity to 5 μg, 334
immunoassay, double, for antibody against thyroglobulin in human serum, 1009 (Abst.)
Anticoagulants in prevention of endotoxin-induced phlebothrombosis in rats, 253
Antidiuretic hormone (ADH), alteration of intestinal water and solute transport by, 875 (Abst.)
Antigen and antibody protein, new method for quantitative determination, with sensitivity to 5 μg, 334
Antigenic, biologic, molecular characteristics of G myeloma pyroglobulin, 1007 (Abst.)
properties of canine hemangiopericytoma, 1032 (Abst.)

Antigenic—Cont'd
sites on human γ-globulins dependent on disulfide bonds, 1032 (Abst.)
specificity and radioimmunoassay of lysine vasopressin, 1028 (Abst.)
Antimalarial therapy for resistant asthma, 1026 (Abst.)
Antituberculous drugs, ambulatory patient reliability in use of, 1000 (Abst.)
Anxiety, chronic, mechanisms causing hyperkinetic circulation in, 875 (Abst.)
Aortic cholesterol, variation with type of dietary fat in cholesterol-fed cockerels, 883 (Abst.)
Aortography, renin assay, differential renal function, and angiotensin infusion test in hypertension, 865 (Abst.)
Apical area of absorbing intestinal cells, ribosome-like particles in, 881 (Abst.)
Aplastic anemia as late radiation effect, evidence from atomic bomb survivors, 855 (Abst.)
Arterial and venous tissue, human, biotin content, 885 (Abst.)
Artery embolization, acute coronary, hyperbaric oxygenation in treatment of, in dogs, 596
Articular connective tissue cells propagated in vitro, relative steroid "unresponsiveness" of, 861 (Abst.)
Ascorbic acid analogues, effect in monolayer tissue culture of human dermal fibroblasts, 659
reversal of "pseudophenylketonuria of prematurity" by large doses of, 892 (Abst.)
Assay, direct immunologic, of human sera for Bence Jones proteins (L-chains), 344
Asthma, resistant, antimalarial therapy for, 1026 (Abst.)
Asymmetrical incorporation of amino acids in alpha and beta chains of hemoglobin synthesized by thalassemic reticulocytes, 476
Atomic absorption spectrophotometry, determination of zinc in biological fluids by, in normal and cirrhotic subjects, 508
bomb survivors, evidence from, aplastic anemia as late radiation effect, 855 (Abst.)
ATP (adenosinetriphosphate), erythrocyte, human, genetic and population studies of, 858 (Abst.)
hepatic, in vivo role in sulfobromophthalein (BSP) metabolism, 1018 (Abst.)
Atrial myocardium and atrioventricular node of man, parasympathetic influence on, 413
Atrioventricular node and atrial myocardium of man, parasympathetic influence on, 413
Autoimmune approach to experimental and clinical cancer, 1020 (Abst.)
Autologous gamma globulin, deposition in kidneys of rats with nephrotic renal disease of various etiologies, 204
Autoradiographic cell labeling, physical and chemical factors which affect, 483
Autosomal codominant trait, transmission of hereditary deficiency of human complement second component as, 886 (Abst.)
Avidity, hepatic, for folate in Laennec's cirrhosis, 446

B

Bacterial endotoxin, aggregation of human platelets by, 245
infection, acute, remission in pernicious anemia after, 874 (Abst.)
Barbiturates, effect of protein binding of on rate of removal during peritoneal dialysis, 549
Basement membranes in normal and diabetic glomeruli, measurements, 884 (Abst.)
Bence Jones proteins (L-chains), direct immunologic assay of human sera for, 344
Beta adrenergic blockade, partial, effect on bronchial response of hay fever subjects to ragweed aerosol, 1006 (Abst.)
and alpha chains of hemoglobin synthesized by thalassemic reticulocytes, asymmetrical incorporation of amino acids in, 476
Bile pigment formation, sites and kinetics, in rats, 1015 (Abst.)
salt, mechanisms of transport in rat small intestine, 865 (Abst.)
Binding, plasma thyroxine, abnormal, and localization of antibodies in vascular tissue, physiological aspects of thyroglobulin immunity, 893
protein, of barbiturates, effect on rate of removal during peritoneal dialysis, 549
serum protein, rapid ultrafiltration method for determining, application to new penicillins, 721
Biochemical basis for low glycogen levels in luekemic leukocytes, 860 (Abst.)
Biologic, antigenic, molecular characteristics of G myeloma pyroglobulin, 1007 (Abst.)
Biological fluids, determination of zinc in, by atomic absorption spectrophotometry in normal and cirrhotic subjects, 508
enzymatic determination of ammonia in, 526
radioenzymatic assay for folic acid antagonists in, 294
Biosynthesis, cholesterol, induction of myotonia by steroidal inhibitors of, 1033 (Abst.)
Biotin content of human arterial and venous tissue, 885 (Abst.)

Bleeding disease, commonest, thrombopathy, 856 (Abst.)
Blood, anion and hydrogen ion distribution in, 464
cells, red, cholesterol, effect of disease on, 1011 (Abst.)
glucose-6-phosphate dehydrogenase deficiency, tissue enzyme levels in, 937
human, of individuals at different ages, galactokinase activity in, 115
and leukocyte galactose-1-phosphate uridyl transferase, improved assay of, stabilization of enzyme by thiol protective reagent, 980
lipid, peroxidation of in PNH hemolysis, 1002 (Abst.)
mature, and mammalian reticulocytes, amino acid transport patterns in, 177
coagulation, new method for investigation of, immunosorbent technique in study of PTC inhibitor, 682
21-deoxycortisol isolation in congenital adrenal hyperplasia, 1031 (Abst.)
dyscrasias, chloramphenicol-associated, prognostication through discriminant function analysis with application to, 853 (Abst.)
flow, coronary, comparison of effects of l-norepinephrine, angiotensin, dipyridamole, digitoxin, and reserpine on regional distribution, 423
guinea pig graft donor's, tissue reactions of guinea pig musculofascial transplants in rabbits pretreated with, prior to grafting, 851 (Abst.)
human, determining mercury content by activation analysis, 168
Bone cells, isolated, collagen synthesis and amino acid transport by, 1008 (Abst.)
marrow and leukemic blood leukocytes, DNA labeling with tritiated thymidine, physical and chemical factors which affect autoradiographic cell labeling, 483
Bronchial response of hay fever subjects to ragweed aerosol, effect of partial beta adrenergic blockade on, 1006 (Abst.)
BSP (sulfobromophthalein) metabolism, in vivo role of hepatic adenosinetriphosphate (ATP) in, 1018 (Abst.)
Buffers, low ionic strength, increase in sensitivity of complement fixation test by, 146
Burn toxin, human, and its neutralization, 1016 (Abst.)

C

Calcium absorption, intestinal, isotopic tracer studies of, 187
metabolism in chronic renal failure, 535
effect of fluoride on, 999 (Abst.)
release, inhibitory effect of thyrocalcitonin on, 881 (Abst.)
Calipers, recording skinfold, for determination of subcutaneous edema, 154
Cancer, experimental and clinical, autoimmune approach to, 1021 (Abst.)
Carbohydrate (dietary)–accentuated lipemia, and familial hyperchylomicronemia (dietary fat–induced lipemia), effects of medium chain length triglyceride on serum lipids and lipoproteins in, 912
Carbon particles or endotoxin, destruction of canine and rabbit platelets following intravenous administration, 263
tetrachloride hepatotoxicity, experimental, rate of increase in plasma levels of cytoplasmic and mitochondrial enzymes in, 315
poisoning, effects on plasma levels of cytoplasmic and mitochondrial enzymes in animals with nutritional fatty metamorphosis, 324
Carbon-14 glycine, entry and incorporation into erythrocyte glutathione, effect of acetylphenylhydrazine and primaquine on, 84
vitamin D_3, metabolism in rats, 852 (Abst.)
Carcinoid syndrome, free and conjugated serotonin excretion in, 390
Carcinoma in situ and normal uterine cervical epithelium, electronic representation of histologic patterns, 994
Cardiac disorders, constrictive pericarditis and tamponade, diagnostic signs, 888 (Abst.)
output and renal clearances of edematous patients with chronic lung disease, 850 (Abst.)
Cardiorespiratory function, selected aspects of, and chest shape, 868 (Abst.)
Cardioversion, hemodynamics of, 864 (Abst.)
Carrageenin granuloma, in vitro incorporation of acetate-1-C^{14} into neutral lipids of, 750
Catabolism, fibrinogen, heterogeneity of human plasma fibrinogen as expression of, 1003 (Abst.)
Catecholamines, plasma, influence of histamine and tyramine on, before and during infusion of norepinephrine, 1000 (Abst.)
Caucasians, Puerto Ricans and other, and Negroes, comparative data for differences in serum gamma globulin levels, 715
Cell, jejunal epithelial, sites of fatty acid synthesis in, 871 (Abst.)
labeling, autoradiographic, physical and chemical factors which affect, 483
nuclei, characterization of antibodies producing homogeneous and speckled fluorescence patterns of, 42
Cells, bone, isolated, collagen synthesis and amino acid transport by, 1008 (Abst.)
colon epithelial, adult, effect of lymphocytes from patients with ulcerative colitis on, 1030 (Abst.)

Cells—Cont'd
intestinal, absorbing, ribosome-like particles in apical area of, 881 (Abst.)
isolated intestinal epithelial, active transport of glucose by, 1024 (Abst.)
red blood, cholesterol, effect of disease on, 1011 (Abst.)
glucose-6-phosphate dehydrogenase deficiency, tissue enzyme levels in, 937
human, of individuals at different ages, galactokinase activity in, 115
and leukocyte galactose-1-phosphate uridyl transferase, improved assay of, stabilization of enzyme by thiol protective reagent, 980
lipid, peroxidation in PNH hemolysis, 1002 (Abst.)
mature, and mammalian reticulocytes, amino acid transport patterns in, 177
rheumatoid articular connective tissue, relative steroid "unresponsiveness" of, 861 (Abst.)
thymus, human, grown in vitro, evidence for two functional populations, 861 (Abst.)
Cellular cholesterol, factors governing, in man, effect of disease on erythrocyte cholesterol, 1011 (Abst.)
Cerebrospinal fluid, effect of penicillin on immunofluorescent staining of *Diplococcus pneumoniae, Neisseria meningitidis,* and *Hemophilus influenzae* in, in vitro, 53
paraproteins in multiple myeloma, 280
Cervical epithelium, uterine, normal, and carcinoma in situ, electronic representation of histologic patterns, 994
Chains, alpha and beta, of hemoglobin synthesized by thalassemic reticulocytes, asymmetrical incorporation of amino acids in, 476
Chemical environment and housing, 1014 (Abst.)
and physical factors which affect autoradiographic cell labeling, 483
Chest shape and selected aspects of cardiorespiratory function, 868 (Abst.)
Chloramphenicol, effect on schistosomiasis mansoni in snails, 1029 (Abst.)
Chloramphenicol-associated blood dyscrasias, prognostication through discriminant function analysis, with application to, 853 (Abst.)
Chlordane, stimulation of hepatic drug metabolism in squirrel monkeys by, 906
Chlorpromazine, inhibition of DNA synthesis by, 1011 (Abst.)
Chlorpropamide enhancement of amino acid–induced hyperinsulinemia, only with leucine, 870 (Abst.)
Cholesterol, aortic, variation with type of dietary fat in cholesterol-fed cockerels, 883 (Abst.)
biosynthesis, induction of myotonia by steroidal inhibitors of, 1033 (Abst.)
Cholesterol—Cont'd
cellular, factors governing, in man, effect of disease on erythrocyte cholesterol, 1011 (Abst.)
concentrations, plasma, low and high, comparison of turnover of individual cholesterol esters in subjects with, 582
embolism, clinical and experimental, 1015 (Abst.)
erythrocyte, effect of disease on, 1011 (Abst.)
esters, individual, comparison of turnover in subjects with low and high plasma cholesterol concentrations, 582
synthesis, effect of experimental hypertension on, in rats, 571
Cholinesterase states, hereditary abnormal, urinary compound found in, 866 (Abst.)
Christmas factor (Factor IX; plasma thromboplastin component; PTC) inhibitor, immunosorbent technique in study of, new method for investigation of blood coagulation, 682
Chromium, intestinal absorption of trace quantities of, 866 (Abst.)
Chromium-51 labeled endotoxin in normal dogs and dogs with increased resistance to endotoxin, 1023 (Abst.)
Chromosomes, action of RLP on, 885 (Abst.)
Cineradiography, esophageal, localization of parathyroid adenomas by, 880 (Abst.)
Circulation, hyperkinetic, in chronic anxiety, mechanisms causing, 875 (Abst.)
Cirrhosis, Laennec's, hepatic avidity for folate in, 446
metabolic flow rates in, 877 (Abst.)
renal failure of, para-aminohippurate (PAH) transport in, 1019 (Abst.)
zinc-65 metabolism in patients with, 1025 (Abst.)
Cirrhotic and normal subjects, determination of zinc in biological fluids by atomic absorption spectrophotometry in, 508
Clearance of colloidal gold by reticuloendothelial system, inhibitory effect of heparin on, 999 (Abst.)
Clearances, renal, and cardiac output of edematous patients with chronic lung disease, 850 (Abst.)
Coagulation, blood, new method for investigation of, immunosorbent technique in study of PTC inhibitor, 682
and Factor XI levels after plasma infusions in PTA-deficient patients, 709
Codominant trait, autosomal, transmission of hereditary deficiency of human complement second component as, 886 (Abst.)
Colitis, ulcerative, effect of lymphocytes from patients with, on adult colon epithelial cells, 1030 (Abst.)

Collagen synthesis and amino acid transport by isolated bone cells, 1008 (Abst.)
effect of ascorbic acid analogues and other reducing substances on, 659
Colloidal gold, inhibitory effect of heparin on clearance by reticuloendothelial system, 999 (Abst.)
Colon epithelial cells, adult, effect of lymphocytes from patients with ulcerative colitis on, 1030 (Abst.)
of miniature swine, primary contact sensitization of, 854 (Abst.)
Colony forms, atypical, in staphylococcal disease, 1013 (Abst.)
Colorimetric determination of urinary methylmalonic acid in pernicious anemia, 667
Competitive protein-binding analysis with anion-exchange resin and radiothyroxine, determination of thyroxine by, 161
Complement action, inhibition by rheumatoid factor, 1019 (Abst.)
fixation test, increase in sensitivity with low ionic strength buffers, 146
human, hereditary deficiency of second component of, transmission as autosomal codominant trait, 886 (Abst.)
serum, components in renal disease, profiles of, 872 (Abst.)
Compressive cardiac disorders, constrictive pericarditis and tamponade, diagnostic signs, 888 (Abst.)
Computer-based clinical laboratory operation, 879 (Abst.)
medical history system, 1022 (Abst.)
Conditioned pyridoxine deficiency, effect on excretion of porphyrin precursors in normal and experimentally porphyric rabbits, 122
Configuration, ventricular, indicator washout as function of, 856 (Abst.)
Congenital adrenal hyperplasia, blood 21-deoxycortisol isolation in, 1031 (Abst.)
Conjugated and free serotonin excretion in carcinoid syndrome, 390
Connective tissue cells, rheumatoid articular, relative steroid "unresponsiveness" of, 861 (Abst.)
disorders following renal homotransplantation, analysis of 55 cases, 857 (Abst.)
lipids, in vitro incorporation of acetate-1-C^{14} into neutral lipids of carrageenin granuloma, 750
sponge biopsy, and liver, effect of hydrocortisone on sugar nucleotide content of, 855 (Abst.)
Constrictive pericarditis and tamponade, diagnostic signs, 888 (Abst.)
Contact sensitization, primary, of colon of miniature swine, 854 (Abst.)
Coronary artery embolization, acute, hyperbaric oxygenation in treatment of, in dogs, 596
Coronary—Cont'd
blood flow, comparison of effects of l-norepinephrine, angiotensin, dipyridamole, digitoxin, and reserpine on regional distribution of, 423
Cr^{51}-labeled endotoxin in normal dogs and dogs with increased resistance to endotoxin, 1023 (Abst.)
Cross circulation, leukocyte kinetics in dogs studied by, 64
Cytoplasmic and mitochondrial enzymes in animals with nutritional fatty metamorphosis, effects of carbon tetrachloride poisoning on plasma levels of, 324
in experimental carbon tetrachloride hepatotoxicity, rate of increase in, 315

D

Dehydration, effect on kinetics of peritoneal fluid absorption, 232
Dehydrogenase, glucose-6-phosphate, deficiency, erythrocyte, tissue enzyme levels in, 937
glucose tolerance in, 868 (Abst.)
and hemosiderosis, refractory hemolytic disease associated with, 96
21-Deoxycortisol, isolation from blood in congenital adrenal hyperplasia, 1031 (Abst.)
Deoxyribonucleic acid labeling of bone marrow and leukemic blood leukocytes with tritiated thymidine, physical and chemical factors affecting autoradiographic cell labeling, 483
synthesis, inhibition by chlorpromazine, 1011 (Abst.)
Dermal fibroblasts, human, in monolayer tissue culture, effect of ascorbic acid analogues, 659
Dextran and heparin, pathogenesis of venous thrombosis in relation to prevention by, 604
Diabetes mellitus and insulin, effect on glucose absorption by small intestine in man, 131
Diabetic and healthy subjects during starvation, diurnal variation in levels of glucose and related substances in, 869 (Abst.)
and nondiabetic subjects, normal weight and obese, differential plasma insulin responses to oral and infused glucose in, 1009 (Abst.)
and normal glomeruli, measurements of basement membranes in, 884 (Abst.)
Dialysis, peritoneal, effect of protein binding of barbiturates on rate of removal during, 549
Diazacholesterol, myotonia induced in man and goat by, 758
Diet, low-iron, effect on human iron absorption, 1017 (Abst.)

Dietary fat–induced lipemia (hyperchylomicronemia), familial, and dietary carbohydrate–accentuated lipemia, effects of medium chain length triglyceride on serum lipids and lipoproteins in, 912
fat, variation in aortic cholesterol with type of, in cholesterol-fed cockerels, 883 (Abst.)
Differential renal function, renin assay, aortography, and angiotensin infusion test in hypertension, 865 (Abst.)
Diffusing capacity, pulmonary, and vascular waterfall, 862 (Abst.)
Digitalization, prophylactic, 878 (Abst.)
Digitoxin, l-norepinephrine, angiotensin, dipyridamole, and reserpine, comparison of effects on regional distribution of coronary blood flow, 423
Dilution, isotope, accurate method for measuring plasma fibrinogen, 137
Dinitrophenol (DNP), loss of effect on oxidative metabolism at low temperatures, 1027 (Abst.)
Diplococcus pneumoniae, Neisseria meningitidis, and *Hemophilus influenzae* in cerebrospinal fluid, effect of penicillin on immunofluorescent staining of, in vitro, 53
Dipyridamole, l-norepinephrine, angiotensin, digitoxin, and reserpine, comparison of effects on regional distribution of blood flow, 423
Disaccharidase activity, distribution in small intestine, definition of lactase deficiency, 1004 (Abst.)
Discriminant function analysis, prognostication through, with application to chloramphenicol-associated blood dyscrasias, 853 (Abst.)
Distribution and metabolism of fibrinogen in young and older rabbits, methods and models, 1
results, 20
regional, of coronary blood flow, comparison of effects of l-norepinephrine, angiotensin, dipyridamole, digitoxin, and reserpine on, 423
Disulfide bonds, antigenic sites on human γ-globulins dependent on, 1032 (Abst.)
Diurnal variation in levels of glucose and related substances in healthy and diabetic subjects during starvation, 869 (Abst.)
DNA labeling of bone marrow and leukemic blood leukocytes with tritiated thymidine, physical and chemical factors affecting autoradiographic cell labeling, 483
synthesis, inhibition by chlorpromazine, 1011 (Abst.)
DNP (dinitrophenol), loss of effect on oxidative metabolism at low temperatures, 1027 (Abst.)
Double-isotope studies of renal function in man, 1020 (Abst.)
Drugs, antituberculous, ambulatory patient reliability in use of, 1000 (Abst.)
Duarte variant of galactose-1-phosphate uridyl transferase, biochemical and electrophoretic studies, 853 (Abst.)
Dwarfism, anemia, hypogonadism, and hepatosplenomegaly, role of zinc in syndrome of, 1013 (Abst.)
Dyscrasias, blood, chloramphenicol-associated, prognostication through discriminant function analysis with application to, 853 (Abst.)
Dysgammaglobulinemia and agammaglobulinemia, experimental, in chickens, 863 (Abst.)

E

Edema, angioneurotic, hereditary, permeability properties of plasma in, 867 (Abst.)
subcutaneous, recording skinfold calipers for determination of, 154
Edematous patients with chronic lung disease, cardiac output and renal clearances of, 850 (Abst.)
Elderly and young people, comparison of 1963 and 1964 influenza vaccine in, 1017 (Abst.)
Electrical alternation, study with ultrasound-cardiography, 869 (Abst.)
Electron microscopic studies on fibrillar component of human splenic amyloid, 943
microscopy, Mycoplasma pneumonia in germ-free mice, localization of organisms by, 1005 (Abst.)
Electronic representation of histologic patterns, normal uterine cervical epithelium and carcinoma in situ, 994
Embolism, clinical and experimental, 1015 (Abst.)
Embolization, acute coronary artery, hyperbaric oxygenation in treatment of, in dogs, 596
Endotoxin, bacterial, aggregation of human platelets by, 245
or carbon particles, destruction of canine and rabbit platelets following intravenous administration, 263
Cr^{51}-labeled, in normal dogs and dogs with increased resistance to, 1023 (Abst.)
increased resistance to in germ-free guinea pigs, 849 (Abst.)
Endotoxin-induced phlebothrombosis in rats, anticoagulants in prevention, 253
Enzymatic determination of ammonia in biological fluids, 526
Enzyme, erythrocyte and leukocyte galactose-1-phosphate uridyl transferase, improved assay of, stabilization by thiol protective reagent, 980
tissue, levels in erythrocyte glucose-6-phosphate dehydrogenase deficiency, 937

Enzymes, cytoplasmic and mitochondrial, in animals with nutritional fatty metamorphosis, effects of carbon tetrachloride poisoning on plasma levels of, 324
experimental carbon tetrachloride hepatotoxicity, rate of increase in, 315
tissue and serum, correlation in jaundice diagnosis, 1006 (Abst.)
Enzymology, serum, comparative, 961
Epidemic nephritis in Trinidad, 1022 (Abst.)
Epidemiology, serologic, of human infection with equinelike influenza viruses, 864 (Abst.)
Epithelial cell, jejunal, sites of fatty acid synthesis in, 871 (Abst.)
cells, colon, adult, effect of lymphocytes from patients with ulcerative colitis on, 1030 (Abst.)
intestinal, isolated, active transport of glucose by, 1024 (Abst.)
Epithelium, uterine cervical, normal, and carcinoma in situ, electronic representation of histologic patterns, 994
Equinelike influenza viruses, serologic epidemiology of human infection with, 864 (Abst.)
Erythrocyte adenosine triphosphate (ATP), genetic and population studies of, 858 (Abst.)
cholesterol, effect of disease on, 1011 (Abst.)
glucose-6-phosphate dehydrogenase deficiency, tissue enzyme levels in, 937
glutathione, effect of acetylphenylhydrazine and primaquine on entry and incorporation of C^{14} glycine into, 84
iron incorporation in mice, inhibitory effect of plasma from hypertransfused animals on, 641
and leukocyte galactose-1-phosphate uridyl transferase, improved assay of, stabilization of enzyme by thiol protective reagent, 980
lipid in PNH hemolysis, peroxidation of, 1002 (Abst.)
Erythrocytes, human, of individuals at different ages, galactokinase activity in, 115
mature, amino acid transport patterns in mammalian reticulocytes and, 177
Erythropoiesis, effect of testosterone on, in rats, 873 (Abst.)
after renal homotransplantation, 849 (Abst.)
Erythropoietin studies, preparation of human urine concentrate for, 987
Escherichia coli, host-parasite interaction in infections due to, serologic response of host, 613
Esophageal cineradiography, localization of parathyroid adenomas by, 880 (Abst.)
transport in man, nonperistaltic mechanism of, 1033 (Abst.)
"Essential" hypertension, curable, frequently caused by normokalemic primary aldosteronism, 863 (Abst.)
incidence of primary aldosteronism in patients with, 883 (Abst.)
Esters, cholesterol, individual, comparison of turnover in subjects with low and high plasma cholesterol concentrations, 582
Excretion, albumin, in normal rats and humans, 1012 (Abst.)
of free and conjugated serotonin in carcinoid syndrome, 390
porphyrin precursors in normal and experimentally porphyric rabbits, effect of conditioned pyridoxine deficiency on, 122
renal acid, errors in measurement, 890 (Abst.)
Exercise, synchronized radiography and, evaluation of myocardial state by, 1010 (Abst.)
Extremities, shrinkage of, 880 (Abst.)

F

Factors VIII and IX, prediction of transmission of hemophilia based on assay of, 1016 (Abst.)
Factor IX (Christmas factor; plasma thromboplastin component; PTC) inhibitor, immunosorbent technique in study of, new method for investigation of blood coagulation, 682
XI (PTA) levels and coagulation after plasma infusions in PTA-deficient patients, 709
intrinsic, antibodies to, 880 (Abst.)
rheumatoid, inhibition of complement action by, 1019 (Abst.)
Familial hyperchylomicronemia (dietary fat–induced lipemia) and dietary carbohydrate–accentuated lipemia, effects of medium chain length triglyceride on serum lipids and lipoproteins in, 912
Fat, dietary, variation in aortic cholesterol with type of, in cholesterol-fed cockerels, 883 (Abst.)
(dietary)–induced lipemia (hyperchylomicronemia) and dietary carbohydrate–accentuated lipemia, effects of medium chain length triglyceride on serum lipids and lipoproteins in, 912
Fatty acid synthesis in jejunal epithelial cell, sites of, 871 (Abst.)
metamorphosis, nutritional, effects of carbon tetrachloride poisoning on plasma levels of cytoplasmic and mitochondrial enzymes in animals with, 324
Feces, determination of iodine in, 677
Fibrillar component of human splenic amyloid, electron microscopic studies on, 943

Fibrinogen, plasma, accurate isotope dilution method for measuring, 137
human, heterogeneity, as expression of fibrinogen catabolism, 1003 (Abst.)
in young and older rabbits, metabolism and distribution, methods and models, 1
results, 20
Fibroblasts, dermal, human, in monolayer tissue culture, effect of ascorbic acid analogues, 659
Filter, membrane, technique for enumerating megakaryocytes, 705
Fingernail, half-and-half, 892 (Abst.)
Flow rates, metabolic, in cirrhosis, 877 (Abst.)
Fluid absorption, peritoneal, effect of dehydration on kinetics, 232
cerebrospinal, effect of penicillin on immunofluorescent staining of *Diplococcus pneumoniae, Neisseria meningitidis,* and *Hemophilus influenzae* in, in vitro, 53
paraproteins in multiple myeloma, 280
prostatic, human, immunological properties, 741
Fluids, biological, determination of zinc in, by atomic absorption spectrophotometry in normal and cirrhotic subjects, 508
enzymatic determination of ammonia in, 526
radioenzymatic assay for folic acid antagonists in, 294
Fluorescence patterns of cell nuclei, homogeneous and speckled, characterization of antibodies producing, 42
Fluorescent microscopy studies on murine leukemia (S63) virus, 859 (Abst.)
Fluoride, effect on calcium metabolism, 999 (Abst.)
Folate in Laennec's cirrhosis, hepatic avidity for, 446
Folic acid antagonists in biological fluids, radioenzymatic assay for, 294
Free and conjugated serotonin excretion in carcinoid syndrome, 390
Freezing and thawing, impact on repopulating potential of transplanted hematopoietic tissue, 890 (Abst.)

G

G myeloma pyroglobulin, antigenic, biologic, molecular characteristics, 1007 (Abst.)
Galactokinase activity in human erythrocytes of individuals at different ages, 115
Galactose-1-phosphate uridyl transferase, Duarte variant, biochemical and electrophoretic studies, 853 (Abst.)
erythrocyte and leukocyte, improved assay, stabilization of enzyme by thiol protective reagent, 980
Gamma globulin, autologous, deposition in kidneys of rats with nephrotic renal disease of various etiologies, 204
heat-aggregated, and poliomyelitis vaccines, increase in sensitivity of complement fixation test with low ionic strength buffers, 146
infusions, albumin metabolism in rabbits during, 733
serum levels, racial differences, comparative data for Negroes, Puerto Ricans, and other Caucasians, 715
globulins, human, antigenic sites on, dependent on disulfide bonds), 1032 (Abst.)
Gastric and intestinal secretions from normal, anemic, and hemochromatotic humans, effect on iron absorption, 1004 (Abst.)
Germ-free guinea pigs, increased resistance to endotoxin in, 849 (Abst.)
mice, Mycoplasma pneumonia in, localization of organisms by electron microscopy, 1005 (Abst.)
Glomeruli, normal and diabetic, measurements of basement membranes in, 884 (Abst.)
Glomerulonephritis, membranous, lipoid nephrosis and, with nephrotic syndrome, 1012 (Abst.)
Glucagon, radioimmunoassayable, reduction following glucose loading in man, 889 (Abst.)
Glucose absorption by small intestine in man, effect of diabetes mellitus and insulin on, 131
active transport by isolated intestinal epithelial cells, 1024 (Abst.)
loading, reduction in radioimmunoassayable glucagon following, in man, 889 (Abst.)
metabolism in lean and obese humans, studies with glucose-1-C_{14}, 858 (Abst.)
oral and infused, differential plasma insulin responses to, in normal weight and obese nondiabetic and diabetic subjects, 1009 (Abst.)
and related substances in healthy and diabetic subjects during starvation, diurnal variation in levels of, 869 (Abst.)
tolerance in glucose-6-phosphate dehydrogenase deficiency, 868 (Abst.)
test, effect of aging on, 852 (Abst.)
utilization by rat adipose tissue, quantitative importance of various lipids in, 878 (Abst.)
Glucose-1-C_{14}, studies of glucose metabolism in lean and obese humans with, 858 (Abst.)
Glucose-6-phosphate dehydrogenase deficiency, glucose tolerance in, 868 (Abst.)
and hemosiderosis, refractory hemolytic disease associated with, 96
erythrocyte, deficiency, tissue enzyme levels in, 937

Glucose-6-phosphate—Cont'd
glycogen, and lactic acid content of human skeletal muscle in various myopathies, phosphorylase activity and, 452
Glutaminase activity in kidney in gout, 564
Glutathione, erythrocyte, effect of acetylphenylhydrazine and primaquine on entry and incorporation of C^{14} glycine into, 84
Glycine, C^{14}, entry and incorporation into erythrocyte glutathione, effect of acetylphenylhydrazine and primaquine on, 84
Glycogen, glucose-6-phosphate, and lactic acid content of human skeletal muscle in various myopathies, phosphorylase activity and, 452
levels, low, in leukemic leukocytes, biochemical basis for, 860 (Abst.)
Glycoproteins and proteins, immunochemical heterogeneity in normal human urine, 216
Gold colloid, inhibitory effect on clearance by reticuloendothelial system, 999 (Abst.)
Goldblatt hypertension, contrasting total exchangeable sodium levels in rats with two different types of, 1027 (Abst.)
Gout, cure by renal homotransplantation, 1023 (Abst.)
glutaminase activity in kidney in, 564
Grafting, tissue reactions of guinea pig musculofascial transplants in rabbits pretreated with guinea pig graft donor's blood prior to, 851 (Abst.)
Granuloma, carrageenin, in vitro incorporation of acetate-1-C^{14} into neutral lipids of, 750
Growth hormone and insulin plasma concentrations with metabolic abnormalities in acromegaly, correlative studies of, 366

H

Half-and-half nail, 892 (Abst.)
Hay fever subjects, bronchial response to ragweed aerosol, effect of partial beta adrenergic blockade on, 1006 (Abst.)
Heat-aggregated gamma globulin and poliomyelitis vaccines, increase in sensitivity of complement fixation test with, by low ionic strength buffers, 146
Hemangiopericytoma, canine, antigenic properties, 1032 (Abst.)
Hematopoietic tissue, transplanted, impact of freezing and thawing on repopulating potential, 890 (Abst.)
Hemochromatotic, normal, and anemic humans, effect of gastric and intestinal secretions from on iron absorption, 1004 (Abst.)
Hemodynamics of cardioversion, 864 (Abst.)
Hemoglobin, alpha and beta chains of, synthesized by thalassemic reticulocytes, asymmetrical incorporation of amino acids in, 476
chain variants ($\alpha^{29\,01\,uNH_2}$), in new variety of sickle cell anemia with clinically mild symptoms due to, 886 (Abst.)
Hemolysis, PNH, peroxidation of erythrocyte lipid in, 1002 (Abst.)
Hemolytic disease, refractory, associated with glucose-6-phosphate dehydrogenase deficiency and hemosiderosis, 96
Hemophilia, prediction based on assay of Factors VIII and IX, 1016 (Abst.)
Hemophilus influenzae, Diplococcus pneumoniae, and *Neisseria meningitidis* in cerebrospinal fluid in vitro, effect of penicillin on immunofluorescent staining of, 53
Hemorrhagic shock, hypothermia as protection against metabolic acidosis during, 867 (Abst.)
mechanisms of altered myocardial function and metabolism in, 1001 (Abst.)
Hemosiderosis and glucose-6-phosphate dehydrogenase deficiency, refractory hemolytic disease associated with, 96
Heparin and dextran, pathogenesis of venous thrombosis in relation to prevention by, 604
its inhibitory effect on clearance of colloidal gold by reticuloendothelial system, 999 (Abst.)
Hepatectomy, partial, increased iron absorption during liver regeneration induced by, 627
Hepatic adenosinetriphosphate (ATP), in vivo role in sulfobromophthalein (BSP) metabolism, 1018 (Abst.)
avidity for folate in Laennec's cirrhosis, 446
drug metabolism, stimulation by chlordane in squirrel monkeys, 906
Hepatitis, infectious, and infectious mononucleosis in St. Louis University Hospitals, statistical study, 859 (Abst.)
viral, inoculation of serum from patients with, into subhuman primate, 879 (Abst.)
Hepatosplenomegaly, anemia, dwarfism, and hypogonadism, role of zinc in syndrome of, 1013 (Abst.)
Hepatotoxicity, carbon tetrachloride, experimental, rate of increase in plasma levels of cytoplasmic and mitochondrial enzymes in, 315
Hereditary abnormal cholinesterase states, urinary compound found in, 866 (Abst.)
angioneurotic edema, permeability properties of plasma in, 867 (Abst.)

Hereditary—Cont'd
deficiency of second component of human complement, transmission as autosomal codominant trait, 886 (Abst.)
Heterogeneity of human plasma fibrinogen as expression of fibrinogen catabolism, 1003 (Abst.)
immunochemical, of proteins and glycoproteins in normal human urine, 216
High altitude, secondary polycythemia in adolescents at, 304
Histamine and tyramine, influence on plasma catecholamines before and during infusion of norepinephrine, 1000 (Abst.)
Histologic patterns, electronic representation, normal uterine cervical epithelium and carcinoma in situ, 994
Homogeneity, nephron, effects of functional adaptations on, in diseased rat kidney, 1020 (Abst.)
Homogeneous and speckled fluorescence patterns of cell nuclei, characterization of antibodies producing, 42
Homograft, renal, human, function during rejection, 1005 (Abst.)
Homotransplantation, renal, connective tissue disorders following, analysis of 55 cases, 857 (Abst.)
cure of gout by, 1023 (Abst.)
erythropoiesis after, 849 (Abst.)
Homovanillic acid (3-methoxy-4-hydroxyphenylacetic acid), quantitative determination in urine, 517
Hormone, antidiuretic (ADH), alteration of intestinal water and solute transport by, 875 (Abst.)
growth, and insulin plasma concentrations with metabolic abnormalities in acromegaly, correlative studies of, 366
Hormones, adipokinetic, action on human adipose tissue, 380
Host-parasite interaction in infections due to *Escherichia coli*, serologic response of host, 613
Housing and chemical environment, 1014 (Abst.)
Human placental alkaline phosphatase infused in human subjects, 493
Hydrocortisone, effect on sugar nucleotide of sponge biopsy connective tissue and liver, 855 (Abst.)
Hydrogen ion and anion distribution in blood, 464
4-Hydroxypyrazolo(3,4-d) pyrimidine (allopurinol), xanthine oxidase activity in human tissues and its inhibition by, 688
Hyperbaric chamber, inexpensive, for laboratory investigation of small animals, 532
oxygenation in treatment of acute coronary artery embolization in dogs, 596
Hypercholesterolemic rhesus monkey, incidence of xanthomatosis in, 851 (Abst.)
Hyperchylomicronemia (dietary fat–induced lipemia), familial and dietary carbohydrate–accentuated lipemia, effects of medium chain length triglyceride on serum lipids and lipoproteins in, 912
Hyperinsulinemia, amino acid–induced, chlorpropamide enhancement only with leucine, 870 (Abst.)
Hyperkinetic circulation in chronic anxiety, mechanisms causing, 875 (Abst.)
Hyperplasia, congenital adrenal, blood 21-deoxycortisol isolation in, 1031 (Abst.)
Hypertension, comparative study of renin assay, differential renal function, aortography, and angiotensin infusion test in, 865 (Abst.)
effect on cholesterol synthesis in rats, 571
"essential," curable, frequently caused by normokalemic primary aldosteronism, 863 (Abst.)
incidence of primary aldosteronism in patients with, 883 (Abst.)
Goldblatt, contrasting total exchangeable sodium levels in rats with two different types of, 1027 (Abst.)
reversible, unilateral renal function in, 874 (Abst.)
Hypertransfused animals, inhibitory effect of plasma from, on erythrocyte iron incorporation in mice, 641
Hypertriglyceridemia, alcohol-induced, mechanism of, 357
Hypogammaglobulinemia, adult, immunoglobulin studies in six kindreds of patients with, 433
Hypogonadism, anemia, dwarfism, and hepatosplenomegaly, role of zinc in syndrome of, 1013 (Abst.)
Hyponatremia following section of pituitary stalk, 872 (Abst.)
Hypothermia as protection against metabolic acidosis during hemorrhagic shock, 867 (Abst.)

I

Immunity, altered, reticuloendothelial system activity in diseases of, 952
thyroglobulin, physiological aspects, localization of antibodies in vascular tissue and abnormal plasma thyroxine binding in guinea pigs, 893
Immunoassay, antibody, double, for antibody against thyroglobulin in human serum, 1009 (Abst.)
Immunochemical heterogeneity of proteins and glycoproteins in normal human urine, 216
properties of nucleoproteins, comparative; antigenic properties of canine hemangiopericytoma, 1032 (Abst.)
Immunofluorescent staining of *Diplococcus pneumoniae, Neisseria meningitidis,* and *Hemophilus influenzae* in cerebrospinal fluid in vitro, effect of penicillin on, 53

Immunofluorescent staining—Cont'd
in laboratory diagnosis of varicella-zoster virus infections, 403
Immunoglobulin studies in six kindreds of patients with adult hypogammaglobulinemia, 433
Immunologic assay, direct, of human sera for Bence Jones proteins (L-chains), 344
Immunological properties of human prostatic fluid, 741
Immunologically induced wasting disease, intestinal lactase deficiency in, 877 (Abst.)
Immunosorbent technique in study of a PTC inhibitor, new method for investigation of blood coagulation, 682
Incorporation of acetate-1-C^{14} into neutral lipids of carrageenin granuloma, 750
asymmetrical, of amino acids in alpha and beta chains of hemoglobin synthesized by thalassemic reticulocytes, 476
Incubation, continuous-flow, simple method for in vitro metabolic studies with, 973
Indicator washout as function of ventricular configuration, 856 (Abst.)
Infarction, myocardial, acute, plasma protein changes in, 888 (Abst.)
Infection, bacterial, acute, remission in pernicious anemia after, 874 (Abst.)
human, with equinelike influenza viruses, serologic epidemiology of, 864 (Abst.)
Infections due to *Escherichia coli*, host-parasite interaction in, serologic response of host, 613
intrauterine, with reovirus in mice, 876 (Abst.)
Mycoplasma pneumoniae, in university and military personnel, effectiveness of vaccination, 1003 (Abst.)
varicella-zoster virus, immunofluorescent staining in laboratory diagnosis of, 403
Infectious hepatitis and infectious mononucleosis in St. Louis University Hospitals, statistical study, 859 (Abst.)
Influenza vaccine, 1963 and 1964, comparison in elderly and young people, 1017 (Abst.)
polyvalent, comparison of jet injection with intradermal and subcutaneous syringe methods of administration, 34
viruses, equinelike, serologic epidemiology of human infection with, 864 (Abst.)
Infused human placental alkaline phosphatase in human subjects, 493
Inhibition of DNA synthesis by chlorpromazine, 1011 (Abst.)
Inhibitor, PTC, immunosorbent technique in study of, new method for investigation of blood coagulation, 682
Inhibitors, steroidal, of cholesterol biosynthesis, induction of myotonia by, 1033 (Abst.)
Inhibitory effect of heparin on clearance of colloidal gold by reticuloendothelial system, 999 (Abst.)
of plasma from hypertransfused animals on erythrocyte iron incorporation in mice, 641
Insulin antagonist, Vallance-Owen (synalbumin), reproducibility and reliability of results with, 1021 (Abst.)
and diabetes mellitus, effect on glucose absorption by small intestine in man, 131
plasma, differential responses to oral and infused glucose in normal weight and obese nondiabetic and diabetic subjects, 1009 (Abst.)
and growth hormone concentrations with metabolic abnormalities in acromegaly, correlative studies of, 366
Interaction, host-parasite, in infections due to *Escherichia coli*, serologic response of host, 613
Intestinal absorption of sodium under physiologic conditions in man, mechanisms, 871 (Abst.)
of trace quantities of chromium, 866 (Abst.)
calcium absorption, isotopic tracer studies of, 187
cells, absorbing, ribosome-like particles in apical area of, 881 (Abst.)
epithelial cells, isolated, active transport of glucose by, 1024 (Abst.)
and gastric secretions from normal, anemic, and hemochromatotic humans, effect on iron absorption, 1004 (Abst.)
lactase deficiency in immunologically induced wasting disease, 877 (Abst.)
water and solute transport, alteration by antidiuretic hormone (ADH), 875 (Abst.)
Intestine, small, distribution of disaccharidase activity in, definition of lactase deficiency, 1004 (Abst.)
in man, glucose absorption by, effect of diabetes mellitus and insulin on, 131
Intradermal and subcutaneous methods of administering polyvalent influenza vaccine, comparison with jet injection, 34
Intrauterine infections with reovirus in mice, 876 (Abst.)
Intrinsic factor, antibodies to, 880 (Abst.)
Iodine in feces, determination of, 677
Ion, hydrogen, and anion distribution in blood, 464
Iron absorption, effect of gastric and intestinal secretions from normal, anemic, and hemochromatotic humans on, 1004 (Abst.)
human, effect of low-iron diet on, 1017 (Abst.)

Iron absorption—Cont'd
increased during liver regeneration induced by partial hepatectomy, 627
incorporation, erythrocyte, inhibitory effect of plasma from hypertransfused animals on, in mice, 641
Iron-deficiency anemia, thrombocytosis in, 107
Isotope dilution method for measuring plasma fibrinogen, 137
Isotopic tracer studies of intestinal calcium absorption, 187

J

Jaundice, correlation of tissue and serum enzymes in diagnosis, 1006 (Abst.)
Jejunal epithelial cell, sites of fatty acid synthesis in, 871 (Abst.)
perfusion of sucrose and lactose in lactase-deficient patients, 1024 (Abst.)
Jejunum, mucosal transport of potassium and sodium in, 1010 (Abst.)
Jet injection of polyvalent influenza vaccine, comparison with intradermal and subcutaneous methods of administration, 34

K

α-Ketoglutarate infusion, response to as index of renal metabolism in children, 891 (Abst.)
Kidney, diseased, rat, effects of functional adaptations on nephron homogeneity in, 1020 (Abst.)
in gout, glutaminase activity in, 564
Kidneys of rats with nephrotic renal disease of various etiologies, deposition of autologous gamma globulin in, 204
Kindreds, six, of patients with adult hypogammaglobulinemia, immunoglobulin studies in, 433
Kinetics, leukocyte, in dogs, studied by cross circulation, 64
of peritoneal fluid absorption, effect of dehydration on, 232
and sites of bile pigment formation in rats, 1015 (Abst.)

L

Labeling, DNA, of bone marrow and leukemic blood leukocytes with tritiated thymidine, physical and chemical factors affecting autoradiographic cell labeling, 483
Lactase deficiency, definition, 1004 (Abst.)
intestinal, in immunologically induced wasting disease, 877 (Abst.)
Lactase-deficient patients, jejunal perfusion of sucrose and lactose, 1024 (Abst.)
Lactic acid, glycogen, and glucose-6-phosphate content of human skeletal muscle in various myopathies, phosphorylase activity and, 452
Lactose and sucrose, jejunal perfusion of, in lactase-deficient patients, 1024 (Abst.)
Laennec's cirrhosis, hepatic avidity for folate in, 446
Lax pericardial effusion, diagnostic signs, 888 (Abst.)
L-chains (Bence Jones proteins), direct immunologic assay of human sera for, 344
Leucine, chlorpropamide enhancement of amino acid–induced hyperinsulinemia with, 870 (Abst.)
Leukemia, murine, virus (863), fluorescent microscopy studies on, 859 (Abst.)
Leukemic blood leukocytes and bone marrow, DNA labeling with tritiated thymidine, physical and chemical factors which affect autoradiographic cell labeling, 483
leukocytes, biochemical basis for low glycogen levels in, 860 (Abst.)
Leukemoid response in A-280 tumor–bearing mice, effect of thymectomy and splenectomy on, 889 (Abst.)
Leukocyte and erythrocyte galactose-1-phosphate uridyl transferase, improved assay of, stabilization of enzyme by thiol protective reagent, 980
kinetics in dogs studied by cross circulation, 64
Leukocytes from human donors, influence of nucleotides upon phagocytic and adhesive characteristics of, 850 (Abst.)
leukemic, biochemical basis for low glycogen levels in, 860 (Abst.)
blood, and bone marrow, DNA labeling with tritiated thymidine, physical and chemical factors affecting autoradiographic cell labeling, 483
Lipemia, dietary fat–induced, and dietary carbohydrate–accentuated lipemia, effects of medium chain length triglyceride on serum lipids and lipoproteins in, 912
Lipid, erythrocyte, peroxidation of in PNH hemolysis, 1002 (Abst.)
Lipids of connective tissue, in vitro incorporation of acetate-1-C^{14} into neutral lipids of carrageenin granuloma, 750
and lipoproteins, serum, in familial hyperchylomicronemia (dietary fat–induced lipemia) and dietary carbohydrate–accentuated lipemia, effects of medium chain length triglyceride on, 912
various, quantitative importance in glucose utilization by rat adipose tissue, 878 (Abst.)
Lipoid nephrosis and membranous glomerulonephritis with nephrotic syndrome, 1012 (Abst.)
Lipoprotein, alpha-1, human serum, evidence of heterogeneity, 862 (Abst.)
Lipoproteins and lipids, serum, in familial hyperchylomicronemia (dietary fat–induced lipemia) and dietary carbohydrate–accentuated lipemia, effects of medium chain triglyceride on, 912

Lithocholic acid in serum of patients with liver disease, 860 (Abst.)
Liver disease, lithocholic acid in serum of patients with, 860 (Abst.)
regeneration induced by partial hepatectomy, increased iron absorption during, 627
and sponge biopsy connective tissue, effect of hydrocortisone on sugar nucleotide content of, 855 (Abst.)
L-norepinephrine, angiotensin, dipyridamole, digitoxin, and reserpine, comparison of effects on regional distribution of coronary blood flow, 423
Low-iron diet, effect on human iron absorption, 1017 (Abst.)
Lung disease, chronic, cardiac output and renal clearances of edematous patients with, 850 (Abst.)
human, tensile strength of, 652
Lymph channels, major, plastic occlusion of, effects in living dogs, 1027 (Abst.)
Lymphocytes from patients with ulcerative colitis, effect on adult colon epithelial cells, 1030 (Abst.)
Lysine vasopressin, antigenic specificity and radioimmunoassay of, 1029 (Abst.)

M

McArdle-like syndrome in alcoholism, reversible, 1008 (Abst.)
Magnesium metabolism, relationship of thyroid function to, 882 (Abst.)
Mammalian reticulocytes and mature red blood cells, amino acid transport patterns in, 177
Mature red blood cells and mammalian reticulocytes, amino acid transport patterns in, 177
Medium chain length triglyceride (MCT), effect on serum lipids and lipoproteins in familial hyperchylomicronemia (dietary fat–induced lipemia) and dietary carbohydrate–accentuated lipemia, 912
Megakaryocytes, membrane filter technique for enumerating, 705
Membrane filter technique for enumerating megakaryocytes, 705
Membranes, basement, in normal and diabetic glomeruli, measurements, 884 (Abst.)
Membranous glomerulonephritis, lipoid nephrosis and, with nephrotic syndrome, 1012 (Abst.)
Mercury content of human blood, determination by activation analysis, 168
Metabolic abnormalities in acromegaly, correlative studies of growth hormone and insulin plasma concentrations with, 366
acidosis during hemorrhagic shock, hypothermia as protection against, 867 (Abst.)
flow rates in cirrhosis, 877 (Abst.)
Metabolic—Cont'd
studies, in vitro, simple method with continuous-flow incubation, 973
and therapeutic effects of Mithramycin, 884 (Abst.)
Metabolism, albumin, in rabbits during gamma globulin infusion, 733
calcium, in chronic renal failure, 535
effect of fluoride on, 999 (Abst.)
of C^{14}-vitamin D_3 in rats, 852 (Abst.)
and distribution of fibrinogen in young and older rabbits, methods and models, 1
results, 20
glucose, in lean and obese humans, studies with glucose-1-C_{14}, 858 (Abst.)
hepatic drug, stimulation by chlordane in squirrel monkeys, 906
magnesium, relationship of thyroid function to, 882 (Abst.)
and myocardial function, altered in hemorrhagic shock, mechanisms of, 1001 (Abst.)
oxidative, loss of dinitrophenol effect on at low temperatures, 1027 (Abst.)
renal, response to alpha-ketoglutarate infusion as index of, in children, 891 (Abst.)
sulfobromophthalein (BSP), in vivo role of hepatic adenosinetriphosphate (ATP) in, 1018 (Abst.)
zinc-65, in patients with cirrhosis, 1025 (Abst.)
3-Methoxy-4-hydroxyphenylacetic acid (homovanillic acid), quantitative determination in urine, 517
Methylmalonic acid excretion, a sensitive indicator of vitamin B_{12} deficiency in man, 75
urinary, colorimetric determination of in pernicious anemia, 667
Microscopy, electron, Mycoplasma pneumonia in germ-free mice, localization of organisms by, 1005 (Abst.)
fluorescent, studies on murine leukemia (S63) virus, 859 (Abst.)
Mithramycin, metabolic and therapeutic effects of, 884 (Abst.)
Mitochondrial and cytoplasmic enzymes in animals with nutritional fatty metamorphosis, effects of carbon tetrachloride poisoning on plasma levels of, 324
in experimental carbon tetrachloride hepatotoxicity, rate of increase in, 315
Molecular, antigenic, biologic characteristics of G myeloma pyroglobulin, 1007 (Abst.)
Monolayer tissue culture, human dermal fibroblasts in, effect of ascorbic acid analogues, 659
Mononucleosis, infectious, and infectious hepatitis in St. Louis University Hospitals, statistical study, 859 (Abst.)
Mucosal transport of potassium and sodium in jejunum, 1010 (Abst.)

Multiple myeloma, cerebrospinal fluid paraproteins in, 280
Muscle, skeletal, human, in various myopathies, phosphorylase activity and glycogen, glucose-6-phosphate, and lactic acid content, 452
Musculofascial transplants, guinea pig, tissue reactions of in rabbits pretreated with guinea pig graft donor's blood prior to grafting, 851 (Abst.)
Mycoplasma pneumonia in germ-free mice, localization of organisms by electron microscopy, 1005 (Abst.)
Mycoplasma pneumoniae infections in university and military personnel, effectiveness of vaccination, 1003 (Abst.)
Myeloma, G, pyroglobulin, antigenic, biologic, molecular characteristics, 1007 (Abst.)
multiple, cerebrospinal fluid paraproteins in, 280
Myelopoiesis-stimulating agent in rabbit sera, quantitative changes in level of, 272
Myocardial function and metabolism, altered in hemorrhagic shock, mechanisms, 1001 (Abst.)
infarction, acute, plasma protein changes in, 888 (Abst.)
state, evaluation by synchronized radiography and exercise, 1010 (Abst.)
Myocardium, atrial, and atrioventricular node of man, parasympathetic influence on, 413
Myopathies, various, phosphorylase activity and glycogen, glucose-6-phosphate, and lactic acid content of human skeletal muscle in, 452
Myotonia, induction by steroidal inhibitors of cholesterol biosynthesis, 1033 (Abst.)
in man and goat, induced, 758

N

Necrotizing factor, serum, human, basic properties and clinical significance, 927
Negroes, Puerto Ricans, and other Caucasians, comparative data for differences in serum gamma globulin levels, 715
Neisseria meningitidis, Diplococcus pneumoniae, and *Hemophilus influenzae* in cerebrospinal fluid in vitro, effect of penicillin on immunofluorescent staining of, 53
Neoplastic disease, activity of reticuloendothelial system in, 1017 (Abst.)
Nephritis, epidemic, in Trinidad, 1022 (Abst.)
Nephron homogeneity, effects of functional adaptations on, in diseased rat kidney, 1020 (Abst.)
Nephrosis, lipoid, and membranous glomerulonephritis with nephrotic syndrome, 1012 (Abst.)
Nephrotic renal disease of various etiologies, deposition of autologous gamma globulin in kidneys of rats with, 204
syndrome, lipoid nephrosis and membranous glomerulonephritis with, 1012 (Abst.)
Neutral lipids of carrageenin granuloma, in vitro incorporation of acetate-1-C^{14} into, 750
Neutralization of human burn toxin, 1016 (Abst.)
Node, atrioventricular, and atrial myocardium of man, parasympathetic influence on, 413
Nonperistaltic mechanism of esophageal transport in man, 1033 (Abst.)
Norepinephrine, influence of histamine and tyramine on plasma catecholamines before and during infusion, 1000 (Abst.)
Normokalemic primary aldosteronism, a frequent cause of curable "essential" hypertension, 863 (Abst.)
Nuclei, cell, characterization of antibodies producing homogeneous and speckled fluorescence patterns of, 42
Nucleoproteins, comparative immunochemical properties of; antigenic properties of canine hemangiopericytoma, 1032 (Abst.)
Nucleotide, sugar, content of sponge biopsy connective tissue and liver, effect of hydrocortisone on, 855 (Abst.)
Nucleotides, influence upon phagocytic and adhesive characteristics of leukocytes from human donors, 850 (Abst.)
Nutritional fatty metamorphosis, effects of carbon tetrachloride poisoning on plasma levels of cytoplasmic and mitochondrial enzymes in animals with, 324

O

Obese and normal weight nondiabetic and diabetic subjects, differential plasma insulin responses to oral and infused glucose in, 1009 (Abst.)
Obesity, an enigma, 873 (Abst.)
Occlusion, plastic, of major lymph channels, effects in living dogs, 1027 (Abst.)
Ortho-iodohippurate volumes of distribution in man, 1025 (Abst.)
Oxidase, xanthine, activity in human tissues, its inhibition by allopurinol (4-hydroxypyrazolo[3,4-d] pyrimidine), 688
Oxidative metabolism, loss of dinitrophenol effect on at low temperatures, 1027 (Abst.)
Oxygenation, hyperbaric, in treatment of acute coronary artery embolization in dogs, 596

P

Para-aminohippurate (PAH) transport in renal failure of cirrhosis, 1019 (Abst.)
Paraproteins, cerebrospinal fluid, in multiple myeloma, 280
Parasympathetic influence on atrial myocardium and atrioventricular node of man, 413
Parathyroid adenomas, localization by esophageal cineradiography, 880 (Abst.)
Parotid and submaxillary secretions, human, protein variability of, 1002 (Abst.)
Paroxysmal nocturnal hemoglobinuria (PNH) hemolysis, peroxidation of erythrocyte lipid in, 1002 (Abst.)
Penicillin, effect on immunofluorescent staining of *Diplococcus pneumoniae, Neisseria meningitidis,* and *Hemophilus influenzae* in cerebrospinal fluid in vitro, 53
Penicillins, new, rapid ultrafiltration method of determining serum protein binding for, 721
Perfusion, jejunal, of sucrose and lactose in lactase-deficient patients, 1024 (Abst.)
Pericarditis, constrictive, and tamponade, diagnostic signs, 888 (Abst.)
Peritoneal dialysis, effect of protein binding of barbiturates on their rate of removal during, 549
  fluid absorption, effect of dehydration on kinetics, 232
Permeability properties of plasma in hereditary angioneurotic edema, 867 (Abst.)
Pernicious anemia, colorimetric determination of urinary methylmalonic acid in, 667
  remission after acute bacterial infection, 874 (Abst.)
Peroxidation of erythrocyte lipid in PNH hemolysis, 1002 (Abst.)
Phagocytic and adhesive characteristics of leukocytes from human donors, influence of nucleotides upon, 850 (Abst.)
Phlebothrombosis in rats, endotoxin-induced, anticoagulants in prevention, 253
Phosphatase, human placental alkaline, infused in human subjects, 493
  platelet acid, possible role in platelet phospholipid release, 1031 (Abst.)
Phospholipid, platelet, platelet acid phosphatase in release of, 1031 (Abst.)
Phosphorylase activity and glycogen, glucose-6-phosphate, and lactic acid content of human skeletal muscle in various myopathies, 452
Physical and chemical factors which affect autoradiographic cell labeling, 483
Pigment, bile, sites and kinetics of formation in rats, 1015 (Abst.)
Pituitary stalk, hyponatremia following section of, 872 (Abst.)
Placental alkaline phosphatase, human, infused in human subjects, 493
Plasma catecholamines, influence of histamine and tyramine on, before and during infusion of norepinephrine, 1000 (Abst.)
  cholesterol concentrations, low and high, comparison of turnover of individual cholesterol esters in subjects with, 582
  fibrinogen, accurate isotope dilution method for measuring, 137
    human, heterogeneity of as expression of fibrinogen catabolism, 1003 (Abst.)
  from hypertransfused animals, inhibitory effect on erythrocyte iron incorporation in mice, 641
  in hereditary angioneurotic edema, permeability properties, 867 (Abst.)
  insulin, and growth hormone concentrations with metabolic abnormalities in acromegaly, correlative studies, 366
    responses, differential, to oral and infused glucose in normal weight and obese nondiabetic and diabetic subjects, 1009 (Abst.)
  levels of cytoplasmic and mitochondrial enzymes in animals with nutritional fatty metamorphosis, effects of carbon tetrachloride poisoning on, 324
    experimental carbon tetrachloride hepatotoxicity, rate of increase in, 315
  protein changes in acute myocardial infarction, 888 (Abst.)
  thromboplastin antecedent (Factor XI) levels and coagulation after plasma infusions in PTA-deficient patients, 709
    component (Factor IX; Christmas factor; PTC) inhibitor, immunosorbent technique in study of, new method for investigation of blood coagulation, 682
  thyroxine binding, abnormal, and localization of antibodies in vascular tissue in guinea pigs, physiological aspects of thyroglobulin immunity, 893
Plastic occlusion of major lymph channels, effects in living dogs, 1027 (Abst.)
Platelet acid phosphatase, possible role in platelet phospholipid release, 1031 (Abst.)
  survival and behavior in sheep, 887 (Abst.)
Platelets, canine and rabbit, destruction following intravenous administration of carbon particles or endotoxin, 263
  human, aggregation by bacterial endotoxin, 245
PNH hemolysis, peroxidation of erythrocyte lipid in, 1002 (Abst.)

Poisoning, carbon tetrachloride, effects on plasma levels of cytoplasmic and mitochondrial enzymes in animals with nutritional fatty metamorphosis, 324
Poliomyelitis vaccines and heat-aggregated gamma globulin, increase in sensitivity of complement fixation test with by low ionic strength buffers, 146
Polycythemia, secondary, in adolescents at high altitude, 304
Polyvalent influenza vaccine, comparison of jet injection with intradermal and subcutaneous syringe methods of injection, 34
Porphyrin precursors, effect of conditioned pyridoxine deficiency on excretion in normal and experimentally porphyric rabbits, 122
Potassium and sodium, mucosal transport in jejunum, 1010 (Abst.)
Precursors, porphyrin, effect of conditioned pyridoxine deficiency on excretion in normal and experimentally porphyric rabbits, 122
Pressure cooker, modified as inexpensive hyperbaric chamber for laboratory investigation of small animals, 532
Primaquine and acetylphenylhydrazine, effect on entry and incorporation of C^{14} glycine into erythrocyte glutathione, 84
Primary aldosteronism, incidence in patients with "essential" hypertension, 883 (Abst.)
normokalemic, a frequent cause of curable "essential" hypertension, 863 (Abst.)
contact sensitization of colon of miniature swine, 854 (Abst.)
Prophylactic digitalization, 878 (Abst.)
Prostatic fluid, human, immunological properties, 741
Protein, antigen and antibody, new method for quantitative determination of, with sensitivity to 5 μg, 334
binding of barbiturates, effect on rate of removal during peritoneal dialysis, 549
plasma, changes in acute myocardial infarction, 888 (Abst.)
serum, binding, rapid ultrafiltration method for determining, application to new penicillins, 721
variability of human parotid and submaxillary secretions, 1002 (Abst.)
Protein-binding analysis, competitive, with anion-exchange resin and radiothyroxine, determination of thyroxine by, 161
Proteins, Bence Jones (L-chains), direct immunologic assay of human sera for, 344
and glycoproteins in normal human urine, immunochemical heterogeneity of, 216
"Pseudophenylketonuria of prematurity," reversal of by large doses of ascorbic acid, 892 (Abst.)
PTA (Factor XI) levels and coagulation after plasma infusions in PTA-deficient patients, 709
PTC inhibitor, immunosorbent technique in study of, new method for investigation of blood coagulation, 682
Puerto Ricans, other Caucasians, and Negroes, comparative data for differences in serum gamma globulin levels, 715
Pulmonary diffusing capacity and vascular waterfall, 862 (Abst.)
Pyridoxine deficiency, conditioned, effect on excretion of porphyrin precursors in normal and experimentally porphyric rabbits, 122
Pyroglobulin, G myeloma, antigenic biologic, molecular characteristics, 1007 (Abst.)

R

Racial differences in serum gamma globulin levels, comparative data for Negroes, Puerto Ricans, and other Caucasians, 715
Radiation effect, late, aplastic anemia as, evidence from atomic bomb survivors, 855 (Abst.)
Radioenzymatic assay for folic acid antagonists in biological fluids, 294
Radiography and exercise, synchronized, evaluation of myocardial state by, 1010 (Abst.)
Radioimmunoassay and antigenic specificity of lysine vasopressin, 1029 (Abst.)
Radioimmunoassayable glucagon, reduction following glucose loading in man, 889 (Abst.)
Radiothyroxine and anion-exchange resin, determination of thyroxine by competitive protein-binding analysis with, 161
Ragweed aerosol, effect of partial beta adrenergic blockade on bronchial response of hay fever subjects to, 1006 (Abst.)
Recording skinfold calipers for determination of subcutaneous edema, 154
Red blood cell cholesterol, effect of disease on, 1011 (Abst.)
glucose-6-phosphate dehydrogenase deficiency, tissue enzyme levels in, 937
and leukocyte galactose-1-phosphate uridyl transferase, improved assay of, stabilization of enzyme by thiol protective reagent, 980
lipid in PNH hemolysis, peroxidation of, 1002 (Abst.)
cells, human, of individuals at different ages, galactokinase activity in, 115
mature, and mammalian reticulocytes, amino acid transport patterns in, 177

Refractory hemolytic disease associated with glucose-6-phosphate dehydrogenase deficiency and hemosiderosis, 96
Regeneration, liver, induced by partial hepatectomy, increased iron absorption during, 627
Regional distribution of coronary blood flow, comparison of effects of l-norepinephrine, angiotensin, dipyridamole, digitoxin, and reserpine on, 423
Rejection, function of human renal homograft during, 1005 (Abst.)
Renal acid excretion, errors in measurement, 890 (Abst.)
clearances and cardiac output of edematous patients with chronic lung disease, 850 (Abst.)
disease, nephrotic, of various etiologies, deposition of autologous gamma globulin in kidneys of rats with, 204
profiles of serum complement components in, 872 (Abst.)
failure, chronic, calcium metabolism in, 535
of cirrhosis, para-aminohippurate (PAH) transport in, 1019 (Abst.)
function, differential, renin assay, aortography, and angiotensin infusion test in hypertension, 865 (Abst.)
in man, double-isotope studies, 1020 (Abst.)
unilateral, in reversible hypertension, 874 (Abst.)
homograft, human, function during rejection, 1005 (Abst.)
homotransplantation, connective tissue disorders following, analysis of 55 cases, 857 (Abst.)
cure of gout by, 1023 (Abst.)
erythropoiesis after, 849 (Abst.)
metabolism, response to alpha-ketoglutarate infusion as index of, in children, 891 (Abst.)
Renin assay, differential renal function, aortography, and angiotensin infusion test in hypertension, 865 (Abst.)
Reovirus, intrauterine infections with, in mice, 876 (Abst.)
Repopulating potential of transplanted hematopoietic tissue, impact of freezing and thawing on, 890 (Abst.)
Reserpine, l-norepinephrine, angiotensin, dipyridamole, and digitoxin, comparison of effects of regional distribution of coronary blood flow, 423
Reticulocytes, mammalian, and mature red blood cells, amino acid transport patterns in, 177
thalassemic, asymmetrical incorporation of amino acids in alpha and beta chains of hemoglobin synthesized by, 476
Reticuloendothelial system, activity in diseases of altered immunity, 952
neoplastic disease, 1017 (Abst.)
inhibitory effect of heparin on colloidal gold clearance by, 999 (Abst.)
Rheumatoid articular connective tissue cells propagated in vitro, relative steroid "unresponsiveness" of, 861 (Abst.)
factor, inhibition of complement action by, 1019 (Abst.)
Ribosome-like particles in apical area of absorbing intestinal cells, 881 (Abst.)
RLP (aqueous extract of sheep spleen), action on chromosomes, 885 (Abst.)

S

Salicylate, acute effect on human thyroxine transport, 1001 (Abst.)
Salt, bile, mechanisms of transport in rat small intestine, 865 (Abst.)
Schistosomiasis mansoni in snails, effect of chloramphenicol on, 1029 (Abst.)
Secondary polycythemia in adolescents at high altitude, 304
Secretions, gastric and intestinal, from normal, anemic, and hemochromatotic humans, effect on iron absorption, 1004 (Abst.)
parotid and submaxillary, human, protein variability of, 1002 (Abst.)
Sensitization, primary contact, of colon of miniature swine, 854 (Abst.)
Sera, human, direct immunologic assay of for Bence Jones proteins (L-chains), 344
Serologic epidemiology of human infection with equinelike influenza viruses, 864 (Abst.)
response of host, host-parasite interaction in infections due to *Escherichia coli*, 613
Serotonin, free and conjugated, excretion in carcinoid syndrome, 390
Serum complement components in renal disease, profiles of, 872 (Abst.)
enzymology, comparative, 961
gamma globulin levels, racial differences, comparative data for Negroes, Puerto Ricans, and other Caucasians, 715
human, alpha-1-lipoprotein heterogeneity, evidence of, 862 (Abst.)
double antibody immunossay for antibody against thyroglobulin in, 1009 (Abst.)
lipids and lipoproteins in familial hyperchylomicronemia (dietary fat-induced lipemia) and dietary carbohydrate-accentuated lipemia, effects of medium chain length triglyceride on, 912
necrotizing factor, human, basic properties and clinical significance, 927
of patients with liver disease, lithocholic acid in, 860 (Abst.)

Serum—Cont'd
protein binding, rapid ultrafiltration method for determining, application to new penicillins, 721
and tissue enzymes, correlation in jaundice diagnosis, 1006 (Abst.)
Shock, hemorrhagic, hypothermia as protection against metabolic acidosis during, 867 (Abst.)
mechanisms of altered myocardial function and metabolism in, 1001 (Abst.)
Shrinkage of extremities, 880 (Abst.)
Sickle cell anemia, new variety, with clinically mild symptoms due to α chain variant of hemoglobin ($\alpha^{29Gly \rightarrow NH_2}$), 886 (Abst.)
Skeletal muscle, human, in various myopathies, phosphorylase activity and glycogen, glucose-6-phosphate, and lactic acid content, 452
Skinfold calipers, recording, for determination of subcutaneous edema, 154
Sodium levels, contrasting total exchangeable, in rats with two different types of Goldblatt hypertension, 1027 (Abst.)
mechanisms of intestinal absorption of, under physiologic conditions in man, 871 (Abst.)
and potassium, mucosal transport in jejunum, 1010 (Abst.)
Solute and intestinal water transport, alteration by antidiuretic hormone (ADH), 875 (Abst.)
Speckled and homogeneous fluorescence patterns of cell nuclei, characterization of antibodies producing, 42
Spectrophotometry, atomic absorption, determination of zinc in biological fluids by, in normal and cirrhotic subjects, 508
Spleen, sheep, aqueous extracts of (RLP), action on chromosomes, 885 (Abst.)
Splenectomy and thymectomy, effect on leukemoid response in A-280 tumor-bearing mice, 889 (Abst.)
Splenic amyloid, human, electron microscopic studies on fibrillar component of, 943
Sponge biopsy connective tissue and liver, effect of hydrocortisone on sugar nucleotide content of, 855 (Abst.)
Staining, immunofluorescent, of *Diplococcus pneumoniae, Neisseria meningitidis,* and *Hemophilus influenzae* in cerebrospinal fluid in vitro, effect of penicillin on, 53
in laboratory diagnosis of varicella-zoster virus infections, 403
Staphylococcal disease, atypical colony forms in, 1013 (Abst.)
Steroid "unresponsiveness," relative, of rheumatoid articular connective tissue cells propagated in vitro, 861 (Abst.)
Steroidal inhibitors of cholesterol biosynthesis, induction of myotonia by, 1033 (Abst.)
Strength, tensile, of human lung, 652
Subcutaneous edema, recording skinfold calipers for determination of, 154
and intradermal syringe methods of administering polyvalent influenza vaccine, comparison with jet injection, 34
Submaxillary and parotid secretions, human, protein variability of, 1002 (Abst.)
Sucrose and lactose, jejunal perfusion of, in lactase-deficient patients, 1024 (Abst.)
Sugar nucleotide content of sponge biopsy connective tissue and liver, effect of hydrocortisone on, 855 (Abst.)
Sulfobromophthalein (BSP) metabolism, in vivo role of hepatic adenosinetriphospate (ATP) in, 1018 (Abst.)
S63 virus, murine leukemia, fluorescent microscopy studies on, 859 (Abst.)
Synalbumin (Vallance-Owen) insulin antagonist, reproducibility and reliability of results with, 1021 (Abst.)
Syndrome of anemia, dwarfism, hypogonadism, and hepatosplenomegaly, role of zinc in, 1013 (Abst.)
carcinoid, free and conjugated serotonin excretion in, 390
McArdle-like, in alcoholism, reversible, 1008 (Abst.)
nephrotic, lipoid nephrosis and membranous glomerulonephritis with, 1012 (Abst.)
Synthesis, cholesterol, effect of experimental hypertension on, in rats, 571
collagen, and amino acid transport by isolated bone cells, 1008 (Abst.)
DNA, inhibition by chlorpromazine, 1011 (Abst.)
fatty acid, in jejunal epithelial cell, sites of, 871 (Abst.)
Syringe methods, intradermal and subcutaneous, of administering polyvalent influenza vaccine, comparison with jet injection, 34

T

Tamponade, cardiac, and constrictive pericarditis, diagnostic signs, 888 (Abst.)
Tensile strength of human lung, 652
Testosterone, effect on erythropoiesis in rats, 873 (Abst.)
Thalassemic reticulocytes, asymmetrical incorporation of amino acids in alpha and beta chains of hemoglobin synthesized by, 476
THAM (Tris; 2-amino-2-hydroxymethyl-1,3-propanediol), in urine, determination by titration, 698
Thawing and freezing, impact on repopulating potential of transplanted hematopoietic tissue, 890 (Abst.)

Thiol protective reagent, stabilization of erythrocyte and leukocyte galactose-1-phosphate uridyl transferase by, in improved assay, 980
Thrombocytosis in iron-deficiency anemia, 107
Thrombopathy, commonest bleeding disease, 856 (Abst.)
Thrombosis, venous, pathogenesis in relation to prevention by dextran and heparin, 604
Thymectomy and splenectomy, effect on leukemoid response in A-280 tumor–bearing mice, 889 (Abst.)
Thymidine, tritiated, DNA labeling bone marrow and leukemic blood leukocytes with, physical and chemical factors affecting autoradiographic cell labeling, 483
Thymus cells, human, grown in vitro, evidence for two functional populations, 861 (Abst.)
Thyrocalcitonin, inhibitory effect of on calcium release, 881 (Abst.)
Thyroglobulin, double antibody immunoassay for antibody against, in human serum, 1009 (Abst.)
  immunity, localization of antibodies in vascular tissue and abnormal plasma thyroxine binding in guinea pigs, 893
Thyroid function, relationship to magnesium metabolism, 882 (Abst.)
Thyroxine, determination by competitive protein-binding analysis with anion-exchange resin and radiothyroxine, 161
  plasma, abnormal binding, and localization of antibodies in vascular tissue in guinea pigs, physiological aspects of thyroglobulin immunity, 893
  transport, human, acute effect of salicylate on, 1001 (Abst.)
Tissue, adipose, human, action of adipokinetic hormones on, 380
    rat, quantitative importance of various lipids in glucose utilization by, 878 (Abst.)
  connective, cells, rheumatoid articular, relative steroid "unresponsiveness" of, 861 (Abst.)
    disorders, following renal homotransplantation, analysis of 55 cases, 857 (Abst.)
    lipids, in vitro incorporation of acetate-1-C^{14} into neutral lipids of carrageenin granuloma, 750
    sponge biopsy, and liver, effect of hydrocortisone on sugar nucleotide content of, 855 (Abst.)
  culture, monolayer, human dermal fibroblasts in, effect of ascorbic acid analogues, 659
  enzyme levels in erythrocyte glucose-6-phosphate dehydrogenase deficiency, 937
  hematopoietic, transplanted, impact of freezing and thawing on repopulating potential, 890 (Abst.)
Tissue—Cont'd
  human arterial and venous, biotin content, 885 (Abst.)
  reactions of guinea pig musculofascial transplants in rabbits pretreated with guinea pig graft donor's blood prior to grafting, 851 (Abst.)
  and serum enzymes, correlation in jaundice diagnosis, 1006 (Abst.)
  vascular, localization of antibodies in, and abnormal plasma thyroxine binding in guinea pigs, physiological aspects of thyroglobulin immunity, 893
Tissues, human, xanthine oxidase activity in, and its inhibition by allopurinol, 688
Titration, determination of 2-amino-2-hydroxymethyl-1,3-propanediol (Tris; THAM) in urine by, 698
Tolerance, glucose, in glucose-6-phosphate dehydrogenase deficiency, 868 (Abst.)
Toxin, burn, human, and its neutralization, 1016 (Abst.)
Tracer studies, isotopic, of intestinal calcium absorption, 187
Transferase, galactose-1-phosphate uridyl, biochemical and electrophoretic studies, 853 (Abst.)
    erythroycte and leukocyte, improved assay of, stabilization of enzyme by thiol protective reagent, 980
Transmission of hemophilia, prediction of based on assay of Factors VIII and IX, 1016 (Abst.)
Transplanted hematopoietic tissue, impact of freezing and thawing on repopulating potential, 890 (Abst.)
Transplants, guinea pig musculofascial, tissue reactions of in rabbits pretreated with guinea pig graft donor's blood prior to grafting, 851 (Abst.)
Triglyceride, medium chain length, effect on serum lipids and lipoproteins in familial hyperchylomicronemia (dietary fat–induced lipemia) and dietary carbohydrate–accentuated lipemia, 912
Tris (2-amino-2-hydroxymethyl-1,3-propanediol; THAM), in urine, determination by titration, 698
Tritiated thymidine, DNA labeling of bone marrow and leukemic blood leukocytes with, physical and chemical factors affecting autoradiographic cell labeling, 483
Tumor (A-280)–bearing mice, effect of thymectomy and splenectomy on leukemoid response in, 889 (Abst.)
Turnover of individual cholesterol esters, comparison of in subjects with low and high plasma cholesterol concentrations, 582

Tyramine and histamine, influence on plasma catecholamines before and during infusion of norepinephrine, 1000 (Abst.)

U

Ulcerative colitis, effect of lymphocytes from patients with, on adult colon epithelial cells, 1030 (Abst.)
Ultrafiltration method, rapid, for determining serum protein binding, application to new penicillins, 721
Ultrasoundcardiography, study of electrical alternation with, 869 (Abst.)
Unilateral renal function in reversible hypertension, 874 (Abst.)
Uridyl transferase, galactose-1-phosphate, Duarte variant, biochemical and electrophoretic studies, 853 (Abst.)
erythrocyte and leukocyte, improved assay of, stabilization of enzyme by thiol protective reagent, 980
Urinary 2-amino-2-hydroxymethyl-1,3-propanediol (Tris; THAM), determination by titration, 698
compound found in hereditary abnormal cholinesterase states, 866 (Abst.)
methylmalonic acid in pernicious anemia, colorimetric determination of, 667
Urine concentrate, human, preparation for erythropoietin studies, 987
human, normal, immunochemical heterogeneity of proteins and glycoproteins in, 216
quantitative determination of 3-methoxy-4-hydroxyphenylacetic acid (homovanillic acid) in, 517
Uterine cervical epithelium, normal, and carcinoma in situ, electron representation of histologic patterns, 994

V

Vaccination, effectiveness of, *Mycoplasma pneumoniae* infections in university and military personnel, 1003 (Abst.)
Vaccine, influenza, 1963 and 1964, comparison in elderly and young people, 1017 (Abst.)
polyvalent influenza, comparison of jet injection with intradermal and subcutaneous syringe methods of administration, 34
Vaccines, poliomyelitis, and heat-aggregated gamma globulin, increase in sensitivity of complement fixation test with by low ionic strength buffers, 146
Vallance-Owen (synalbumin) insulin antagonist, reproducibility and reliability of results with, 1021 (Abst.)
Variant, alpha chain, of hemoglobin ($\alpha^{290\text{Glu}\rightarrow\text{NH}_2}$), new variety of sickle cell anemia with clinically mild symptoms due to, 886 (Abst.)
Duarte, of galactose-1-phosphate uridyl transferase, biochemical and electrophoretic studies, 853 (Abst.)
Varicella-zoster virus infections, immunofluorescent staining in laboratory diagnosis of, 403
Vascular tissue, localization of antibodies in, and abnormal plasma thyroxine binding in guinea pigs, physiological aspects of thyroglobulin immunity, 893
waterfall, pulmonary diffusing capacity and, 862 (Abst.)
Vasopressin, lysine, antigenic specificity and radioimmunoassay of, 1029 (Abst.)
Vectorcardiogram, problems in choosing pertinent information from, and in evaluating diagnosis rules, 1028 (Abst.)
Venous and arterial tissue, human, biotin content, 885 (Abst.)
thrombosis, pathogenesis of, in relation to prevention by dextran and heparin, 604
Ventricular configuration, indicator washout as function of, 856 (Abst.)
Viral hepatitis, inoculation of serum from patients with, into subhuman primate, 879 (Abst.)
Virus infections, varicella-zoster, immunofluorescent staining in laboratory diagnosis of, 403
murine leukemia (S63), fluorescent microscopy studies on, 859 (Abst.)
Viruses, influenza, equinelike, serologic epidemiology of human infection with, 864 (Abst.)
Vitamin B_{12} deficiency in man, methylmalonic acid excretion, a sensitive indicator of, 75
D_3, C^{14}, metabolism in rats, 852 (Abst.)

W

Washout, indicator, as function of ventricular configuration, 856 (Abst.)
Wasting disease, immunologically induced, intestinal lactase deficiency in, 877 (Abst.)
Water, intestinal, and solute transport, alteration by antidiuretic hormone (ADH), 875 (Abst.)
Waterfall, vascular, and pulmonary diffusing capacity, 862 (Abst.)
Weight reduction, an enigma, 873 (Abst.)

X

Xanthine oxidase activity in human tissues, its inhibition by allopurinol (4-hydroxypyrazolo [3,4-d] pyrimidine), 688
Xanthomatosis, incidence in hypercholesterolemic rhesus monkey, 851 (Abst.)

Z

Zinc in biological fluids, determination by atomic absorption spectrophotometry in normal and cirrhotic subjects, 508
role in syndrome of anemia, dwarfism, hypogonadism, and hepatosplenomegaly, 1013 (Abst.)
Zinc-65 metabolism in patients with cirrhosis, 1025 (Abst.)